

A1-F18AC-760-500

1 SEPTEMBER 1992

Change 3 - 1 November 2001

TECHNICAL MANUAL

**ORGANIZATIONAL MAINTENANCE
SYSTEM SCHEMATICS**

TACTICAL ELECTRONIC WARFARE SYSTEMS

**NAVY MODEL
F/A-18A AND F/A-18B
161353 AND UP**

N68936-01-D-0007

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NATEC ELECTRONIC MANUAL

NUMERICAL INDEX OF EFFECTIVE WORK PACKAGES/PAGES

List of Current Changes

Original 0 1 Sep 92 Change 2 1 Jan 96
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Only those work packages/pages assigned to the manual are listed in this index. Insert Change 3, dated 1 November 2001. Dispose of superseded work packages/pages. Superseded classified work packages/pages shall be destroyed in accordance with applicable security regulations. If changed pages are issued to a work package, insert the changed pages in the applicable work package. The portion of text affected in a change or revision is indicated by change bars or the change symbol "R" in the outer margin of each column of text. Changes to illustrations are indicated by pointing hands, change bars, or MAJOR CHANGE symbols. Changes to diagrams may be indicated by shaded borders.

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	Packages/Pages		Control System
TPDR-1	List of Technical Publications	011 00	Power Interface Schematic -
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005 00	Locator - Countermeasures		Countermeasures Warning and
	Dispensing System		Control System
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007 00	Locator - Countermeasures Set		Warning and Control System
008 00	Functional Schematic -	015 00	Controls Displays and Audio
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009 00	Locator - Countermeasures Warning		Warning and Control System
	and Control System		

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C blank	3	1 - 7	2	12 blank	3	007 00	
TPDR-1	3	8 blank	2	005 00		1 - 12	0
TPDR-2 blank	3	003 00		1 - 9	0		
001 00		1 - 7	3	10 blank	0		
1	0	8	3				
2 blank	0						

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Change 3

Page B(C blank)

008 00	009 00	4 blank 1	014 00
1 0	1 - 16 0	012 00	1 - 5 1
2 blank 0	010 00	1 - 8 1	6 blank 1
008 01	1 - 9 2	013 00	015 00
1 - 4 0	10 blank 2	1 - 7 0	1 - 14 0
008 02	011 00	8 blank 0	
1 - 10 0	1 - 3 1		

LIST OF TECHNICAL PUBLICATION DEFICIENCY REPORTS INCORPORATED**ORGANIZATIONAL MAINTENANCE****SYSTEM SCHEMATICS****TACTICAL ELECTRONIC WARFARE SYSTEMS**

This WP supersedes TPDR WP, dated 1 December 1993.

1. The TPDRs listed below have been incorporated in this issue.

IDENTIFICATION NUMBER/ QA SEQUENCE NUMBER	LOCATION
NONE	

ALPHABETICAL INDEX

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

TACTICAL ELECTRONIC WARFARE SYSTEMS

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Countermeasures Dispensing System	
Locator	005 00
System Schematic	006 00
Countermeasures Set	
Locator	007 00
System Schematic	008 00
Countermeasures Warning and Control System	
Controls, Displays, and Audio Schematic	015 00
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INTRODUCTION**ORGANIZATIONAL MAINTENANCE****SYSTEM SCHEMATICS****TACTICAL ELECTRONIC WARFARE SYSTEMS**

This WP supersedes WP002 00, dated 1 September 1992.

1. PURPOSE.

2. This manual has system schematics to give information about the system and allow signal tracing through the system. The system schematics support on-aircraft maintenance of mechanical, pneudraulic, electrical, and electronic functions. These functions are integrated on the schematics for ease of troubleshooting a complete system.

3. REQUISITIONING AND DISTRIBUTION OF NAVAIR TECHNICAL PUBLICATIONS.

4. Procedures to be used by Naval Activities and other Department of Defense organizations requiring NAVAIR technical publications are defined in the NAVAL AIR SYSTEMS COMMAND TECHNICAL MANUAL PROGRAM manual, NAVAIR 00-25-100 and NAVAIRINST 5605.5, Distribution of aeronautic technical publications. To automatically receive future changes and revisions to NAVAIR technical manuals, an activity must be established on the Automatic Distribution Requirements List (ADRL) maintained by the Naval Air Technical Services Facility (NAVAIRTECHSERVFAC). To become established on the ADRL, notify your activity central technical publications librarian. If your activity does not have a library, you may establish your automatic distribution requirements by contacting the Commanding Officer, NAVAIRTECHSERVFAC, Attn:

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If additional or replacement copies of this manual are required with no attendant changes in the ADRL, they may be ordered by submitting a DD 1348 requisition directly to the Commanding Officer, Naval Aviation Supply Office, Naval Publication and Forms Directorate, 5801 Tabor Road, Philadelphia, PA 19120-5099.

5. CONTENT.

6. Each system is supported by schematics and a component locator.

7. **COMPONENT LOCATOR.** The component locator shows aircraft location, nomenclature and reference designation number of each system component. The illustration shows the technicians view when possible.

8. **SCHEMATICS.** Simplified schematics, and detailed schematics provide direct support for testing and troubleshooting. All schematics are shown with electrical power off, switches

in off position, and relays in deenergized position unless noted on schematic.

9. **Simplified Schematics.** Simplified schematics consist primarily of blocks connected by single lines with limited use of symbols and pictorial drawings of units. These schematics simplify system functions as much as possible.

10. **Detailed Schematics.** Detailed schematics integrate applicable electrical, pneudraulic and mechanical functions of the system. Detailed schematics show component location, connector pin letters and numbers, in line connectors, test points, and enough data to trace signals through the components within the system. Operational information next to components provides more data as required.

11. **SCHEMATIC HIGHLIGHTS.**

12. For schematic highlights see figure 1.

13. **MANUAL ISSUE DATE.**

14. The date on the title page is the copy freeze date. No additions, deletions, or changes are made after the manual issue date except last minute safety of flight or required maintenance changes. Data collected after the manual issue date will be included in later changes or revisions of the manual.

15. **EFFECTIVITIES.**

16. Effectivity notes on manual title pages, work package title pages, and within a work package indicate the aircraft or software program to which the data applies. If no effectivity note appears on the work package title page, the work package has the same effectivity as shown on the manual title page. The effectivity notes may use:

NOTE

Aircraft with model designator F/A-18B are the same type and model as TF/A-18A.

a. Type, model, and series

b. Bureau number (tail number)

c. Combination of type, model, series, and bureau numbers

d. Part number or serial number

e. Technical directive number

f. Configuration/identification number

17. The table below shows examples of effectivity notes and their meanings:

Effectivity Note Examples

Effectivity Note	Definition
160777 AND UP	Applicable to all F/A-18A, F/A-18B, F/A-18C and F/A-18D for bureau numbers listed.
F/A-18A, F/A-18B	Applicable to all F/A-18A and F/A-18B.
F/A- 18C, F/A-18D	Applicable to all F/A-18C and F/A-18D.
F/A-18A	Applicable to all F/A-18A, but not F/A-18B, F/A-18C and F/A-18D.

Effectivity Note Examples (Continued)

F/A-18B	Applicable to all F/A-18B, but not F/A-18A, F/A-18C, and F/A-18D.
F/A-18C	Applicable to all F/A-18C, but not F/A-18A, F/A-18B, and F/A-18D.
F/A-18D	Applicable to all F/A-18D, but not F/A-18A, F/A-18B, and F/A-18C.
F/A-18A, F/A-18C	Applicable to all F/A-18A and F/A-18C, but not to F/A-18B and F/A-18D.
F/A-18B, F/A-18D	Applicable to all F/A-18B and F/A-18D, but not to F/A-18A and F/A-18C.
F/A-18A 160775, 160777 THRU 160782	Only applicable to some bureau numbers of F/A-18A. Not applicable to any F/A-18B, even if a F/A-18B bureau number is within the numbers listed.
F/A-18C 163427, 163430 THRU 163456	Only applicable to some bureau numbers of F/A-18C. Not applicable to any F/A-18D, even if a F/A-18D bureau number is within the numbers listed.
F/A-18B 160784 AND UP	Only applicable to some bureau numbers of F/A 18B. Not applicable to any F/A-18A, even if an F/A-18A bureau number is within the numbers listed.
F/A-18D 163434 THRU 163457	Only applicable to some bureau numbers of F/A-18D. Not applicable to any F/A-18C, even if a F/A- 18C bureau number is within the numbers listed.
160775 THRU 160785 BEFORE F/A-18 AFC 772	Applicable to F/A- 18A and F/A-18B for bureau numbers listed, before modification by technical directive.
161213 AND UP; ALSO 160775 THRU 160785 AFTER F/A-18 AFC 772	Applicable to aircraft modified during production; also applicable when affected aircraft have been modified by technical directive.
160775 THRU 160785; WHEN NO. 2 CONTROL PANEL P/N XXXX-X IS INSTALLED	Applicable to F/A-18A and F/A 18B for bureau numbers listed if panel P/N XXXX-X is installed. (Configuration before AVC).
161213 AND UP; ALSO 160775 THRU 160785; WHEN NO. 2 CONTROL PANEL P/N XXXX-Y (AVC-102) IS INSTALLED	Applicable to aircraft modified during production; also applicable to aircraft components modified to the production configuration by technical directive. (Configuration after AVC).
P/N MBEU65101-9, MBEU65101-10 & MBEU65105-3	Applicable to assemblies which are interchangeable between aircraft.

Effectivity Note Examples (Continued)

ENGINE NO. 215101 THRU 215109	Applicable to assemblies which are interchangeable between aircraft, but configurations can not be identified by part number.
CONFIG/IDENT NUMBER 84A	The CONFIG/IDENT Number is the program load identification number which identifies the software program loaded in specific programmable units. Refer to A1-F18AC-SCM-000 for CONFIG/IDENT Number tables.

18. TECHNICAL DIRECTIVES.

19. Technical directives are documents which direct the accomplishment, and recording of a retrofit configuration or inspection to delivered aircraft, or aircraft components.

20. AIRFRAME CHANGE (AFC) AND AIRBORNE TACTICAL SOFTWARE CHANGE (ASC).

Technical directives which change configuration of aircraft structure or equipment installation, i.e. AFC, will list aircraft bureau numbers in effectivity notes and show before and after the AFC. Technical directives which change configuration of operational flight programs (OFF), i.e. ASC, will list the OFF CONFIG/IDENT NUMBER in effectivity notes and show the latest two authorized OFF programs. See AFC and ASC effectivity examples in Effectivity Note Example Table.

21. AIRCRAFT COMPONENT CHANGES. Technical directives which change configuration of aircraft components, i.e. AAC, ACC, AVC, AYC, and PPC will list part numbers in the effectivities. See AVC effectivity examples in Effectivity Note Example table.

22. HISTORICAL RECORD/RECORD OF APPLICABLE TECHNICAL DIRECTIVES.

23. The technical directives affecting this manual are listed in the Record of Applicable Technical Directives of each affected work package. Because an ASC directs all aircraft be modified within 30 days, ASC's are not listed. When all affected aircraft are modified, the before configuration is removed from the manual, and the technical directive entry is removed from the Record of Applicable Technical Directives and entered in the Historical Record of Applicable Technical Records.

24. TECHNICAL PUBLICATIONS DEFICIENCY REPORT (TPDR).

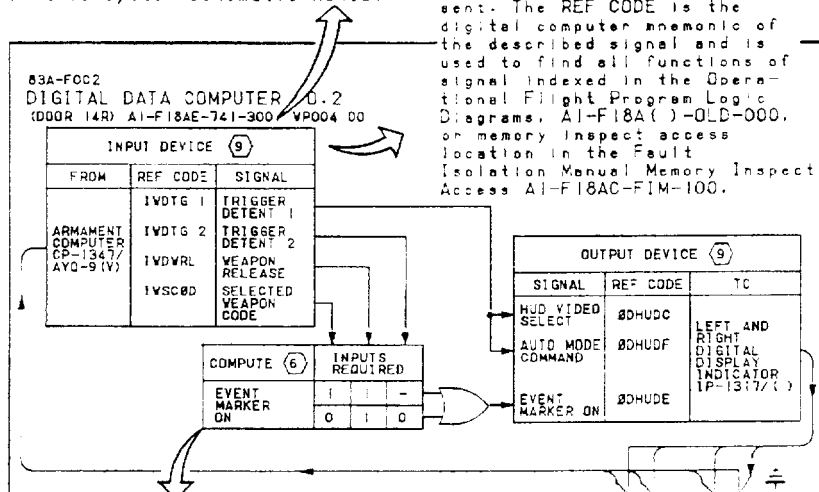
25. The TPDR (OPNAV FORM 4790/66) is the form for reporting errors and suspected omissions in the technical manuals. Reporting procedures are in OPNAVINST 4790.2 SERIES.

26. NAVY (AN) STANDARD/COMMON NAME NOMENCLATURE.

27. When an item has both Navy (AN) standard and common name nomenclature assigned, the common name nomenclature will be used in text and on illustrations. Full Navy (AN) standard nomenclature will be used in the Illustrated Parts Breakdown (IPB).

A1-F18AC-741-300, WP004 00 is a reference to manual which contains component maintenance procedures. When no reference appears, the system maintenance for the component is contained in the -300 series system manual being covered in this system schematic manual.

INPUT OR OUTPUT DEVICE describes the signal, tells where signal comes from or to what component signal is sent. The REF CODE is the digital computer mnemonic of the described signal and is used to find all functions of signal indexed in the Operational Flight Program Logic Diagrams, A1-F18A(-)-OLD-000, or memory inspect access location in the Fault Isolation Manual Memory Inspect Access A1-F18AC-FIM-100.



COMPUTER MATRIX shows the computer operational flight program in a truth table form. A hexagon symbol is placed in the computer matrix and is a reference to the LEGEND for an explanation of matrix.

83P-F002D is the reference designator for an electrical disconnect. The reference designator is used as the entry point into the Wiring Diagram Manual, A1-F18A(-)-WDM-000 or Wiring Repair Manual, A1-F18AC-WRM-000. It may also be used to get the part number of the item by cross referencing in the Ref Des Section of the Parts List Index, A1-F18AC-LPB-450.

HEXAGON SYMBOL contains a number. This symbol and number are used to reference the notes contained in the LEGEND.

SQUARE SYMBOL contains a number that refers to a sheet of the schematic where the circuitry is continued.

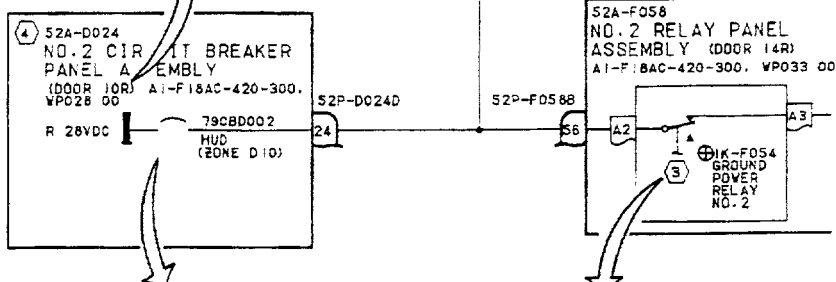
Figure 1. Schematic Highlights (Sheet 1)

Aircraft electrical disconnects are shown on schematics. The disconnect reference designator and aircraft location are shown on schematic. These disconnects may be used as test points for signal tracing.

FLAG SYMBOL contains a number. This symbol and number are used to reference the notes contained in the LEGEND.

Alternate aircraft wiring hookups for different aircraft configurations are shown using this symbol.

(DOOR 10R) Indicates component location on aircraft



Information pertinent to circuit breaker is shown on schematics as listed below:

- R 28VDC is the aircraft bus which supplies voltage to circuit breaker.
- 79CBD002 is the reference designator of circuit breaker and is located next to breaker on rear of panel.
- HUD is the name of circuit breaker and is located next to breaker on front of panel.
- (ZONE D10) is the location of circuit breaker on the circuit breaker panel. The letter D is the vertical location and number 10 is the horizontal location.

DEENERGIZED WHEN GROUND POWER 2 SWITCH IS IN B ON. EXTERNAL ELECTRICAL POWER IS NOT APPLIED, OR APU IS NOT IN GROUND MAINTENANCE MODE.

Operation highlights give pertinent information about the operation of the circuit, for ease of signal tracing.

Figure 1. Schematic Highlights (Sheet 2)

The legend contains all notes pertinent to the schematic as listed below:

- NUMBER listed with no symbol is general information about the schematic.
- NONSTANDARD SYMBOLS appearing on schematic are shown or referenced with an explanation.
- ABBREVIATIONS appearing on schematic are shown or referenced with an explanation.
- HEXAGON SYMBOL refers to another schematic or manual for continuation of a circuit or an explanation of date contained on schematic.
- FLAG SYMBOL indicates limited aircraft application.



LEGEND

1. CONTINUITY TESTS

- ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
- WHEN A LOW FUEL LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING. IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE REPLACE WITH NEW RELAY.
- DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX1 SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES RELAY CONTACTS MAY USE THE RX1 SCALE.
- WHEN TESTING CONTINUITY, TEST FOR:
 - SHORTS TO GROUND.
 - SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - SHIELD CONTINUITY.

2. NONSTANDARD SYMBOL:

- ⊕ IDENTIFIES RELAY USED TO SWITCH TO LOW LEVEL CURRENT. SEE NOTE 1.

③

GROUND POWER SWITCHING SCHEMATIC, A1-F18AC-420-500, WP005 00.

④

POWER DISTRIBUTION SCHEMATIC, A1-F18AC-420-500, WP004 00.

⑤

EXPLANATION OF MATRIX:

- COMPUTE COLUMN LISTS THE SIGNAL OUTPUT.
- INPUTS REQUIRED ARE USED TO DEVELOP THE SIGNAL OUTPUT.
- THE SIGNAL OUTPUT IS READ HORIZONTALLY, EACH HORIZONTAL LINE IS AN INDEPENDENT SIGNAL OUTPUT.
- INTERPRET MATRIX TABLE AS INDICATED:
 - ONE (1) INDICATES THIS INPUT AS NAMED MUST BE THERE TO GET THE OUTPUT.
 - ZERO (0) INDICATES THE INPUT AS NAMED MUST NOT BE THERE TO GET THE OUTPUT.
 - DASH (-) INDICATED THE OUTPUT DOES NOT DEPEND ON THE INPUT.

⑥

AVIONIC MUX CHANNEL 1 SCHEMATIC, A1-F18AC-741-500, WP003 00.

⑦

AVIONIC MUX CHANNEL 2 SCHEMATIC, A1-F18AC-741-500, WP003 00.

⑧

FOR LOGIC DIAGRAMS RELATING TO REF CODE, REFER TO A1-F18AC-OLD-000. FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE. REFER TO A1-F18AC-FIM-100.

9

F/A-18A.

10

F/A-18B.

Figure 1. Schematic Highlights (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

LOCATOR

INTERFERENCE BLANKER SYSTEM

This WP supersedes WP003 00, dated 1 September 1992.

Reference Material

None

Alphabetical Index

Subject

Page No.

Interference Blanker System Locator, Figure 1

2

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 50	16 Oct 84	Tactical Electronic Warfare Systems, ALR-67 Countermeasures, Modification of (ECP MDA-F/A-18-003R1 C1/C2/C3)	15 Jun 85	-
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1)	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Nov 01	-

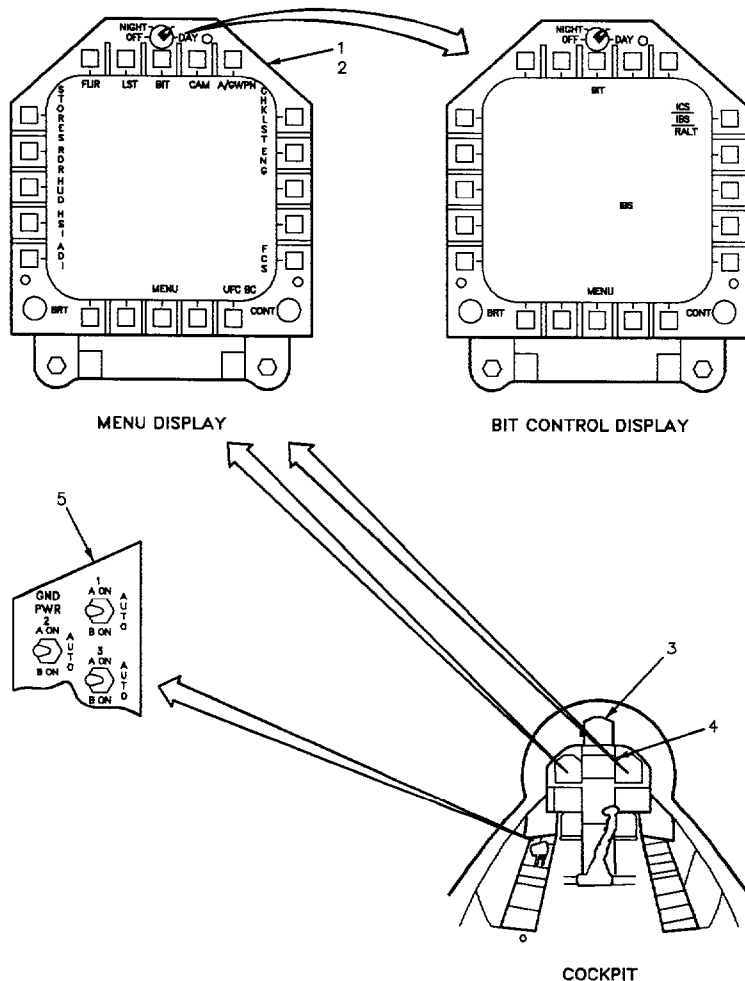


Figure 1. Interference Blanker System Locator (Sheet 1)

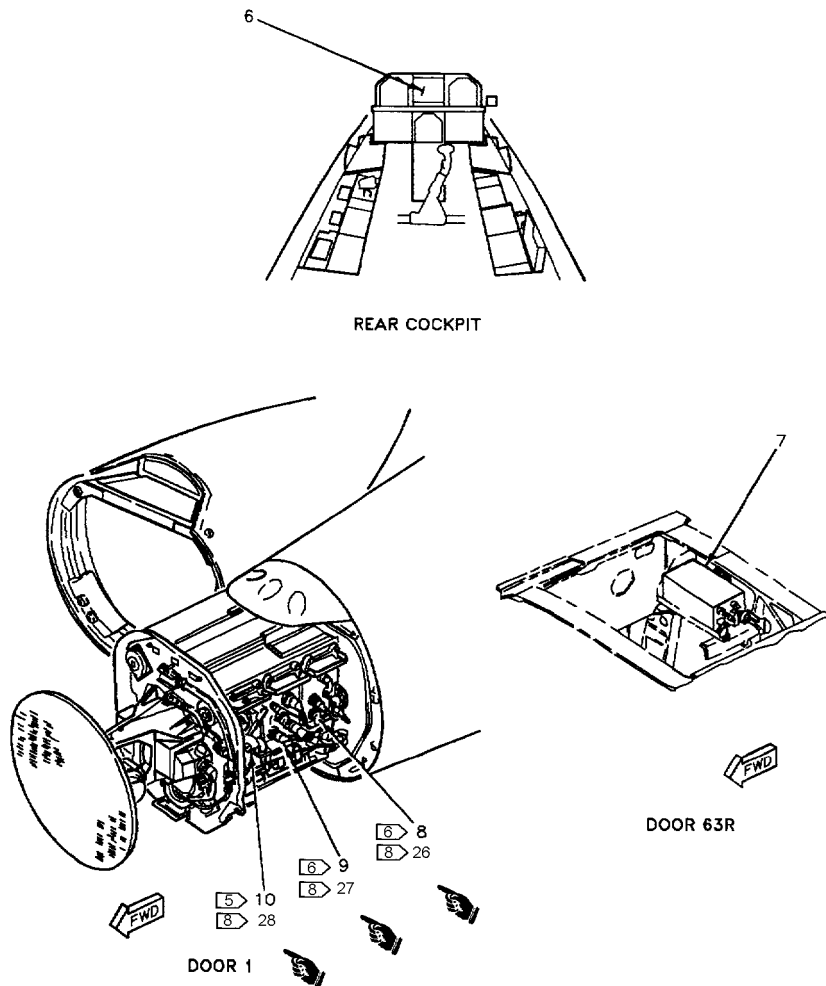
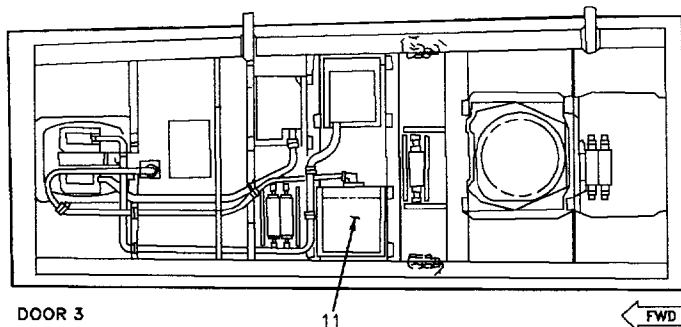
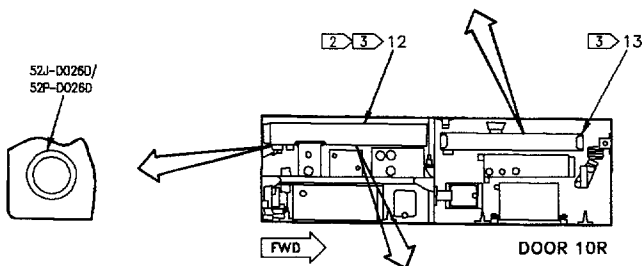


Figure 1. Interference Blanker System Locator (Sheet 2)

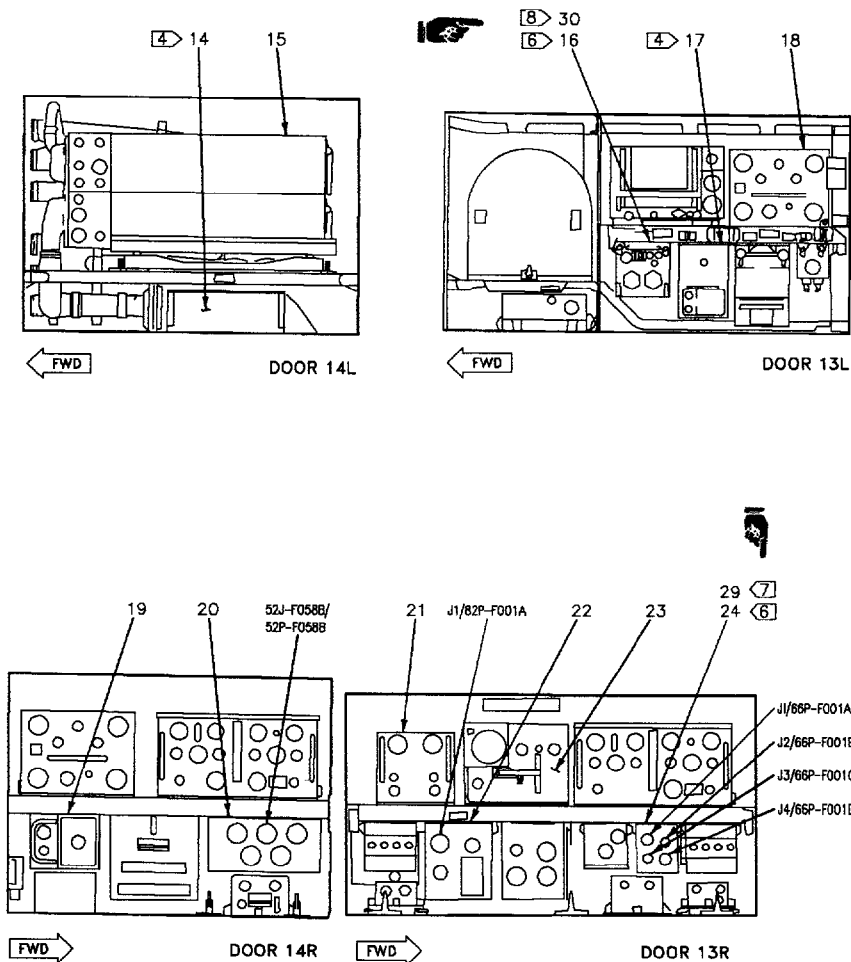


3 52A-D024 NO. 2 CIRCUIT BREAKER PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
A11	82CBD002	CSC	R115VAC0A
A12	56CBD002	BLANKER	R115VAC0A
B11	82CBD003	CSC	R115VAC0B
C11	82CBD004	CSC	R115VAC0C



52A-D026 NO. 4 CIRCUIT BREAKER PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
3 B3	82CBD005	CSC	R28VDC
2 C7	82CBD004	CSC	R115VAC0C
2 C8	82CBD003	CSC	R115VAC0B
2 C9	82CBD002	CSC	R115VAC0A
2 C12	82CBD005	CSC	R28VDC
2 D9	56CBD002	BLANKER	R115VAC0A

Figure 1. Interference Blanker System Locator (Sheet 3)



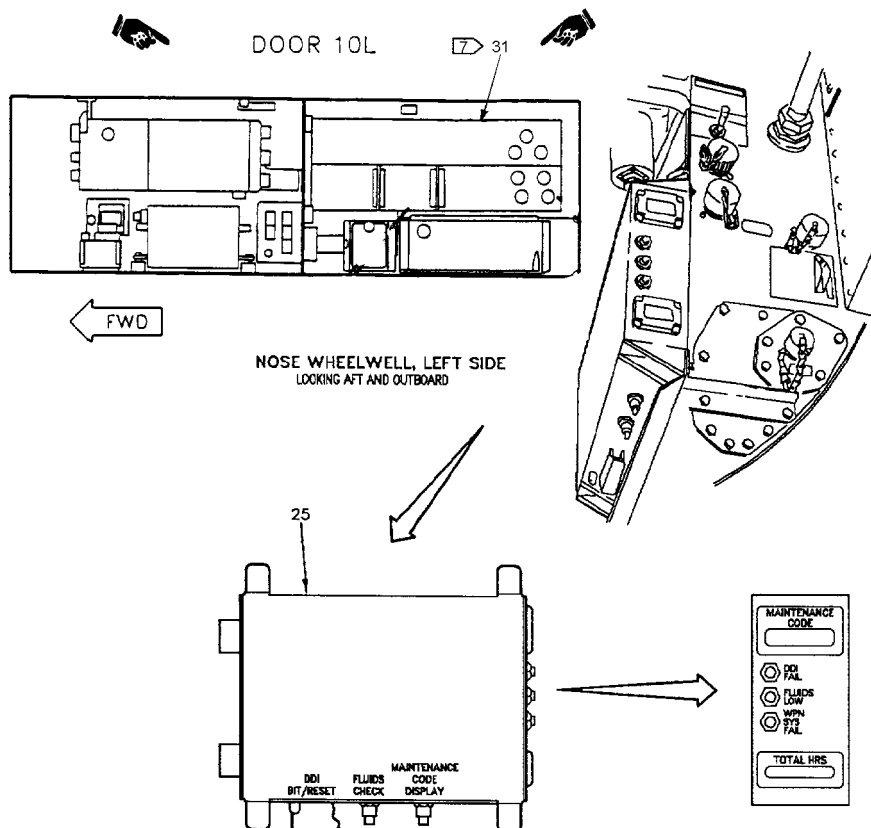


Figure 1. Interference Blanker System Locator (Sheet 5)

NOMENCLATURE		INDEX NO.	REF DES
	COMMAND LAUNCH COMPUTER CP-1001()/AWG	23	61A-F010
6	COMPUTER POWER SUPPLY CP-1325/APG-65	9	60A-A505
	CONTROL-CONVERTER C-10382/A	22	82A-F001
4	COUNTERMEASURES COMPUTER CP-1293()/ALR-67(V)	17	62A-E006
	DIGITAL DATA COMPUTER NO. 1	18	83A-E001
	DIGITAL DISPLAY INDICATOR ID-2150/ASM-612	25	85A-G003
	ELECTRONIC EQUIPMENT CONTROL C-10380/ASQ	4	79A-J006
	GND PWR CONTROL PANEL ASSEMBLY	5	1A-H004
	HEAD-UP DISPLAY UNIT AN/AVQ-28	3	79A-J001
6	INTERFERENCE BLANKER MX-9965/A	24	66A-F001
7	INTERFERENCE BLANKER MX-11741/A	29	66A-F001
	LEFT DIGITAL DISPLAY INDICATOR IP-1317()	1	80A-H001
3	NO. 2 CIRCUIT BREAKER PANEL ASSEMBLY	13	52A-D024
	NO. 2 RELAY PANEL ASSEMBLY	20	52A-F058
	NO. 4 CIRCUIT BREAKER PANEL ASSEMBLY	12	52A-D026
7	NO. 7 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY	31	52A-C057
8	RADAR DATA PROCESSOR CP-2062/APG-73	26	60A-A503
8	RADAR POWER SUPPLY PP-8318/APG-73	28	60A-A505
8	RADAR RECEIVER R-2484/APG-73	27	60A-A506
5	RADAR RECEIVER-EXCITER R-2089/APG-65	10	60A-A506
4	RADAR RECEIVER R-2055A/ALR-67(V)	14	62A-E009
	RADAR RECEIVER-TRANSMITTER RT-1028/APN-202	11	72A-A002
6	RADAR TARGET DATA PROCESSOR CP-1326/APG-65	8	60A-A503

Figure 1. Interference Blanker System Locator (Sheet 6)

NOMENCLATURE		INDEX NO.	REF DES
NOMENCLATURE		INDEX NO.	REF DES
<div>6</div> RECEIVER-TRANSMITTER RT-1157()/APX-100(V)	REAR ELECTRONIC EQUIPMENT CONTROL C-10380 ASQ	6	76A-L028
	RECEIVER-TRANSMITTER RT-1015()/APN-194(V)	7	67A-T001
	RECEIVER-TRANSMITTER RT-1079()/ALQ-126	15	64A-E001
	RECEIVER-TRANSMITTER RT-1159/A	16	78A-E001
	RECEIVER-TRANSMITTER RT-1763/APX-111(V)	21	69A-F001
	RIGHT DIGITAL DISPLAY INDICATOR IP-1317()	30	78A-E016
	SIGNAL DATA RECORDER RO-508/ASM-612	2	80A-J002
		19	85A-F001

LEGEND

1.
- 2
- 161353 THRU 161359.
- 3
- 161360 AND UP.
- 4
- 161702 AND UP.
- 5
- 161353 THRU 161583; ALSO 161702 THRU 163175 BEFORE F/A-18 AFC 50, INTERFACE WITH INTERFERENCE BLANKER SYSTEM EXISTS.
- 6
- 161353 AND UP BEFORE F/A-18 AFC 253 OR F/A-18 AFC 292.
- 7
- 162394 THRU 163175 AFTER F/A-18 AFC 253 OR F/A-18 AFC 292.
- 8
- 162394 THRU 163175 AFTER F/A-18 AFC 292.

Figure 1. Interference Blanker System Locator (Sheet 7)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - FUNCTIONAL

INTERFERENCE BLANKER SYSTEM

This WP supersedes WP004 00, dated 1 September 1992.

Reference Material

None

Alphabetical Index

Subject

Page No.

Interference Blanker System Functional Schematic, Figure 1

2

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 50	16 Oct 84	Tactical Electronic Warfare System, ALR-67 Countermeasures, Modification of (ECP MDA-F/A-18-003R1 C1/C2/C3)	15 Jun 85	-
F/A-18 AFC 158	-	Correction of AN/ALR-67 and AN/ALQ-126B Wiring (ECP RAM EC NORIS-22-90)	1 Sep 92	-
F/A-18 AFC 253	-	U.S. Naval Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0560R1	1 Nov 01	-
F/A-18 AFC 292	-	U.S. Marine Corps Reserves A+ Avionics Upgrade, Incorporation of (ECP MDA-F/A-18-0583)	1 Nov 01	-

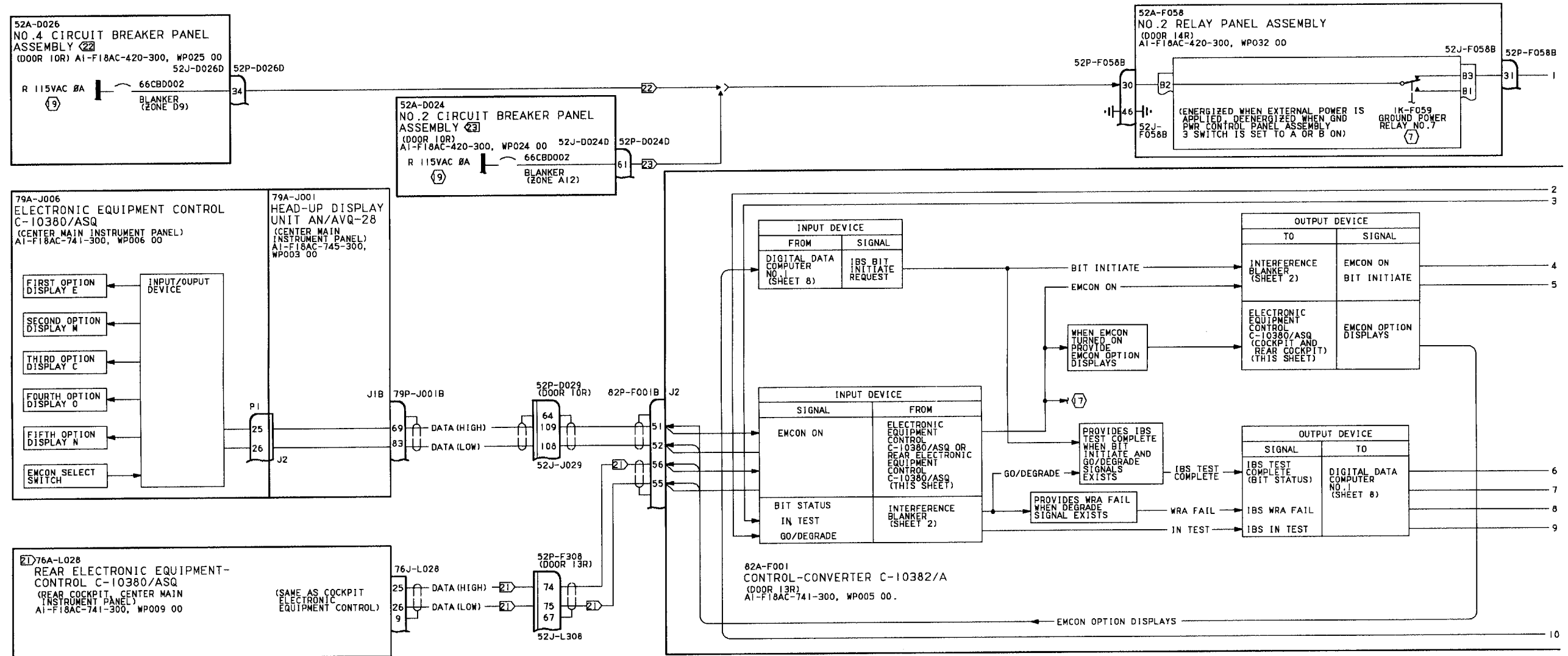
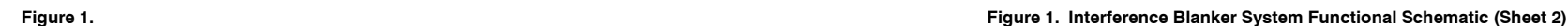


Figure 1.

Figure 1. Interference Blanker System Functional Schematic (Sheet 1)



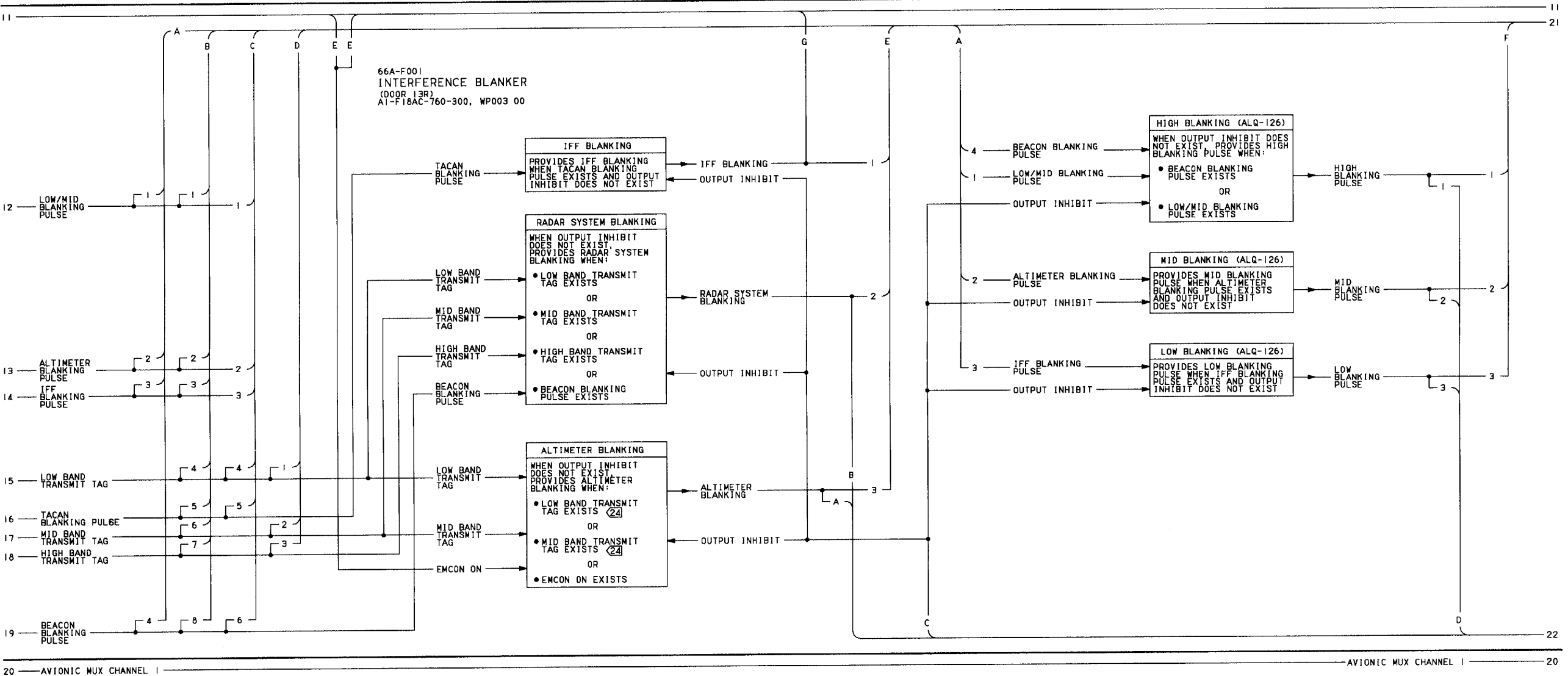


Figure 1.

Figure 1. Interference Blanker System Functional Schematic (Sheet 3)

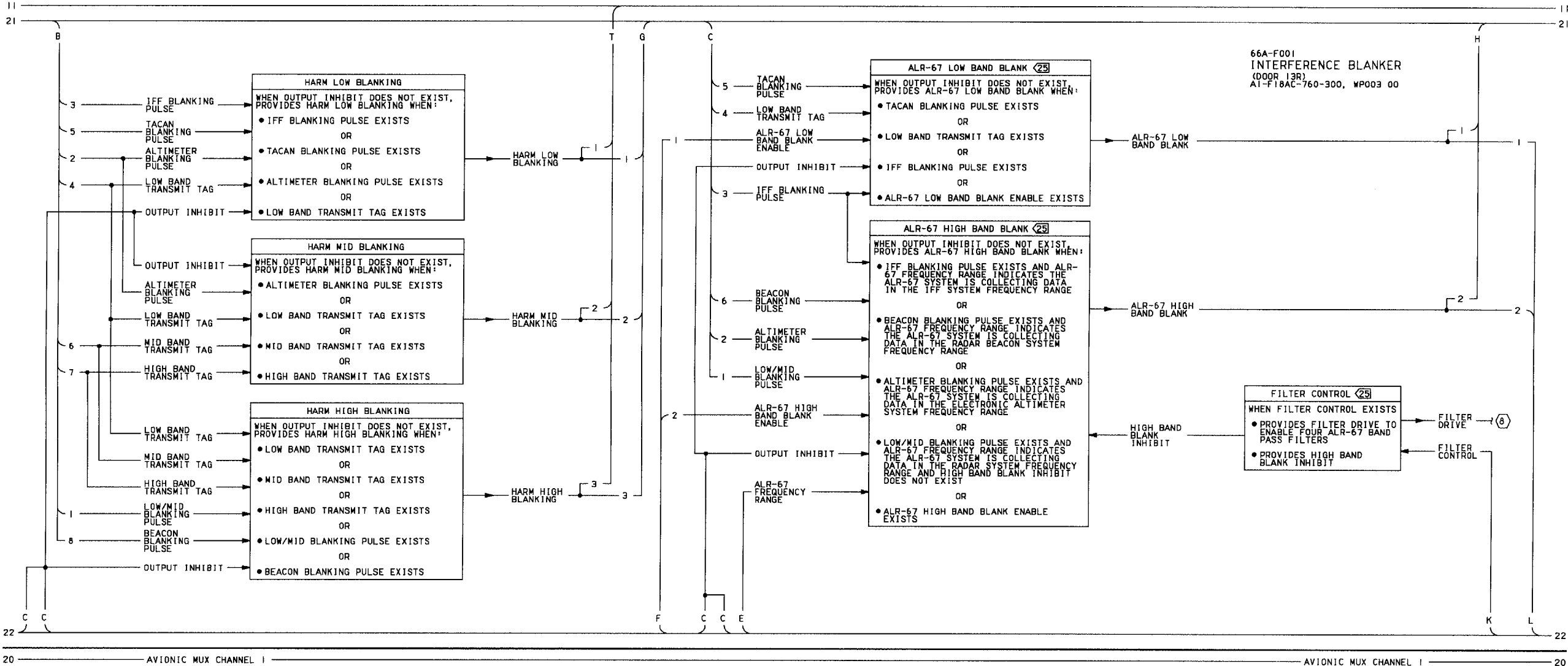


Figure 1.

Figure 1. Interference Blanker System Functional Schematic (Sheet 4)

Figure 1.

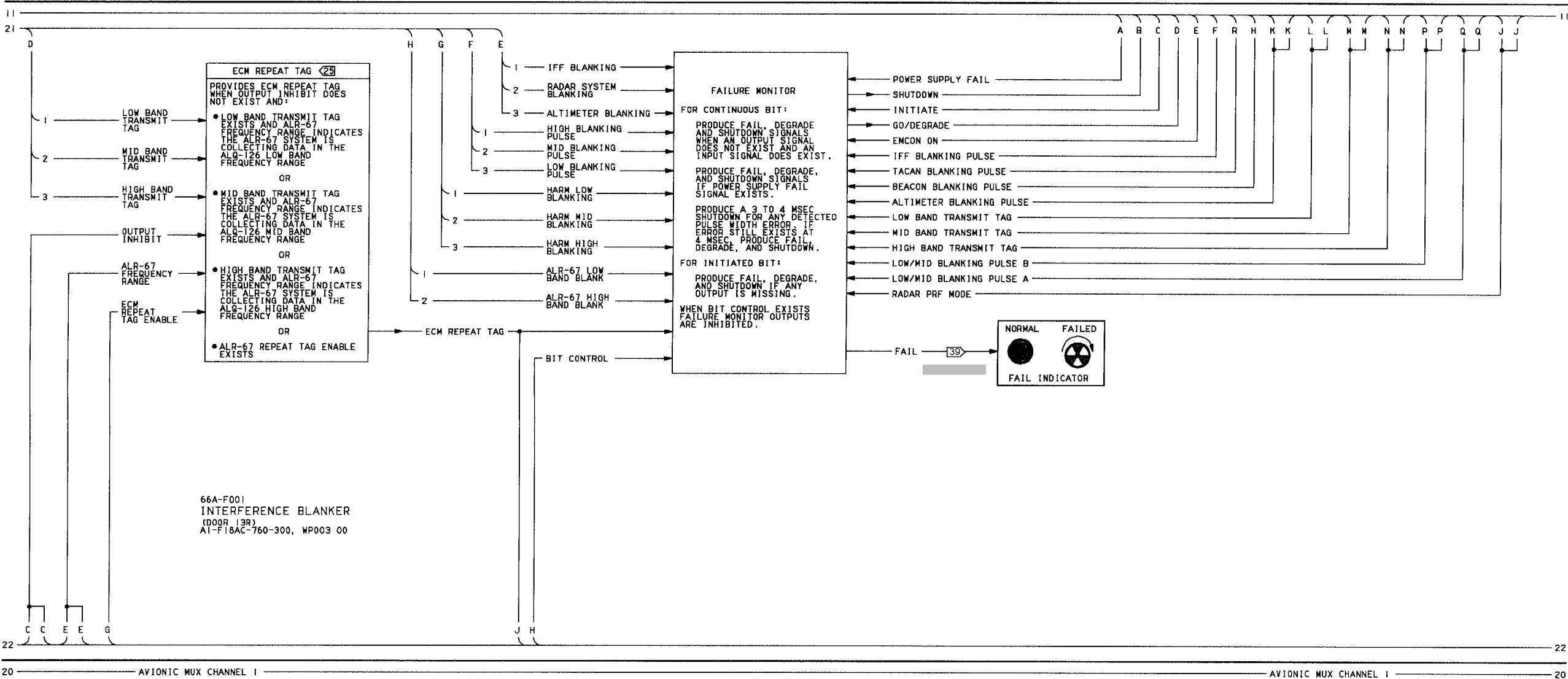


Figure 1.

Figure 1. Interference Blanker System Functional Schematic (Sheet 5)

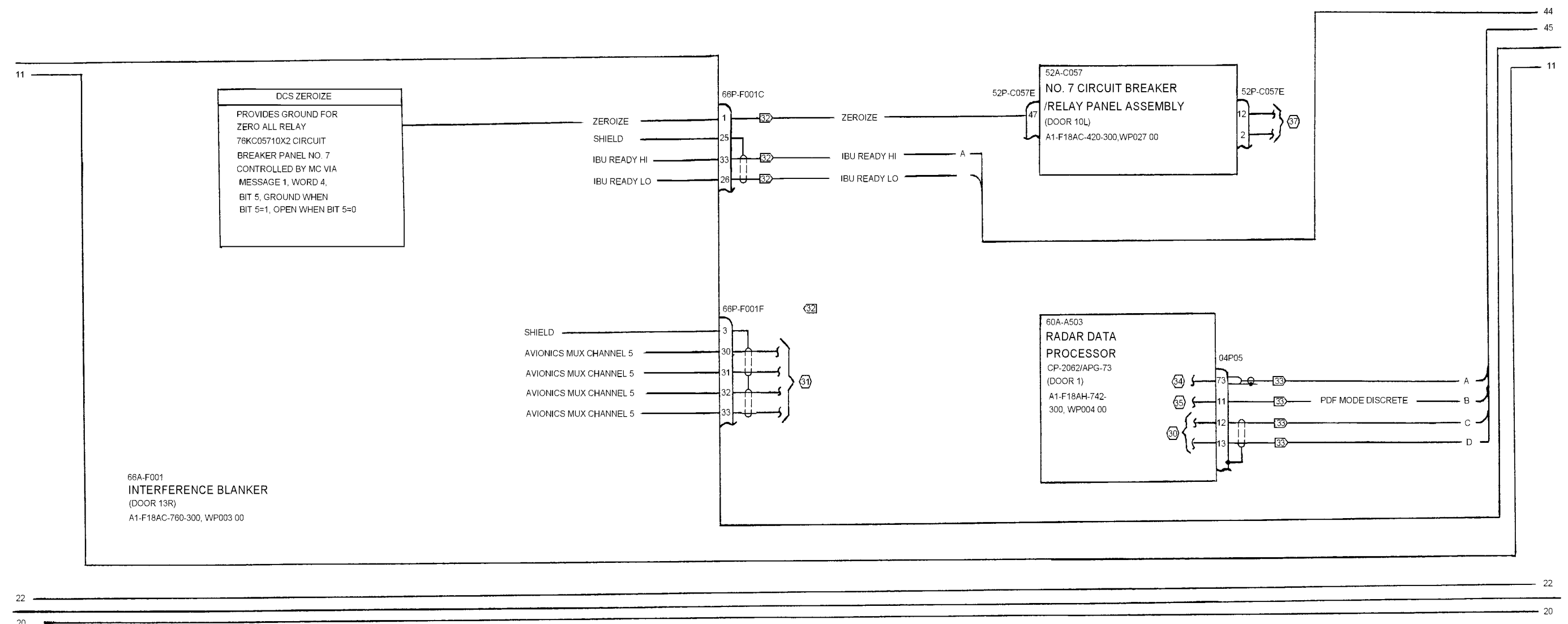


Figure 1.

Figure 1. Interference Blanker System Functional Schematic (Sheet 6)

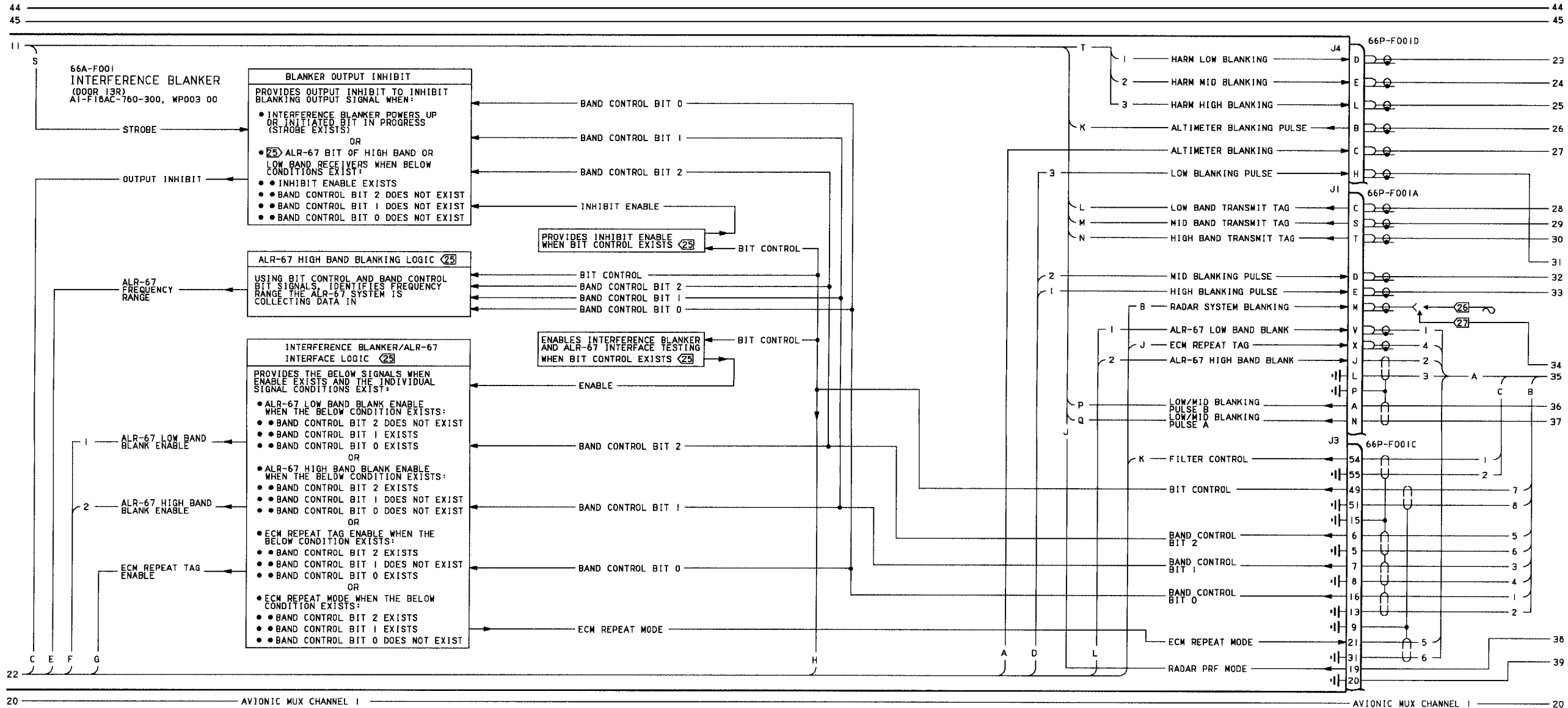


Figure 1.

Figure 1. Interference Blanker System Functional Schematic (Sheet 7)

Figure 1.

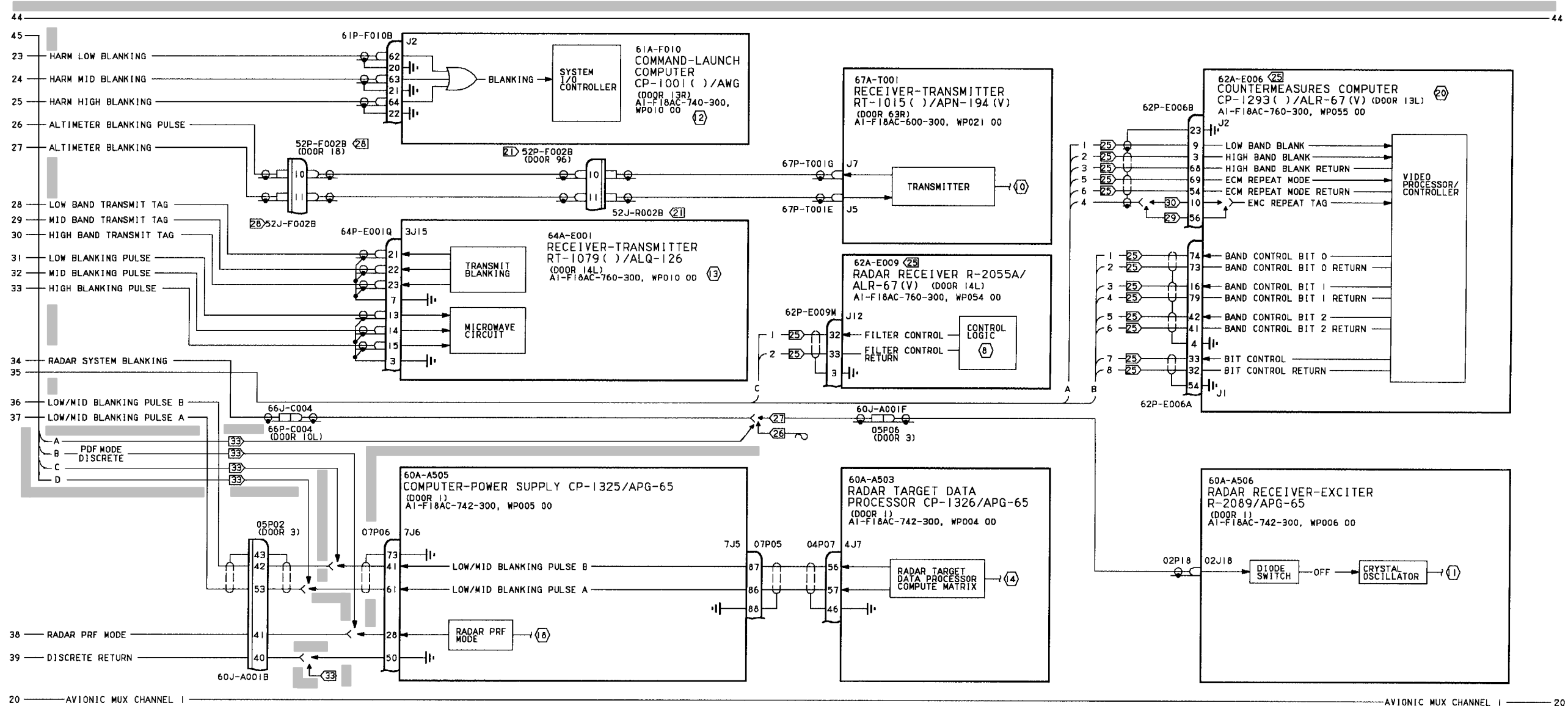


Figure 1.

Figure 1. Interference Blanker System Functional Schematic (Sheet 8)

Figure 1.

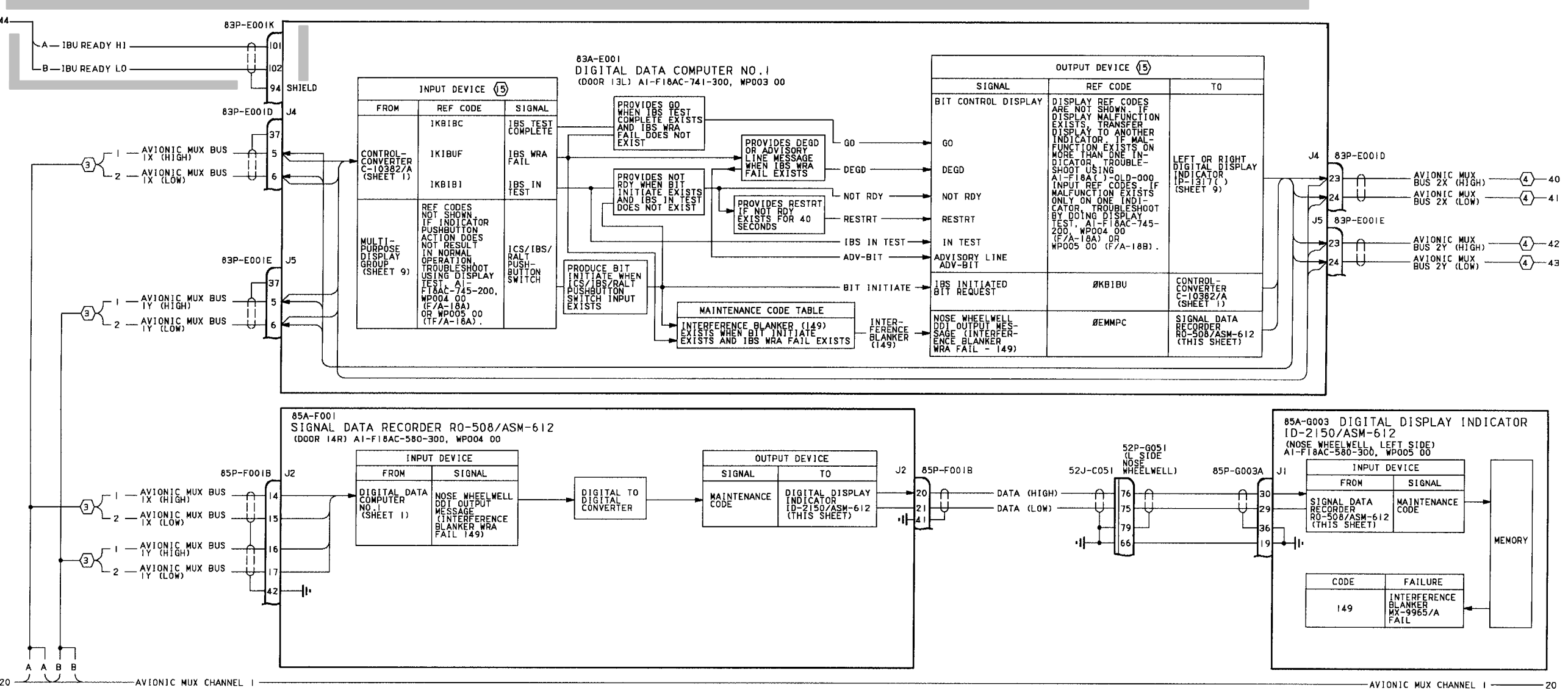


Figure 1.

Figure 1. Interference Blanker System Functional Schematic (Sheet 9)

Figure 1.



Figure 1.

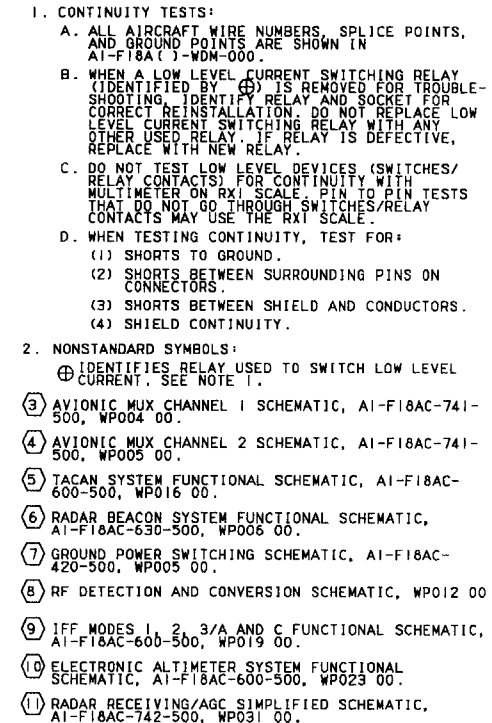


Figure 1. Interference Blanker System Functional Schematic (Sheet 10)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

LOCATOR

COUNTERMEASURES DISPENSING SYSTEM

Reference Material

None

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Record of Applicable Technical Directives

None

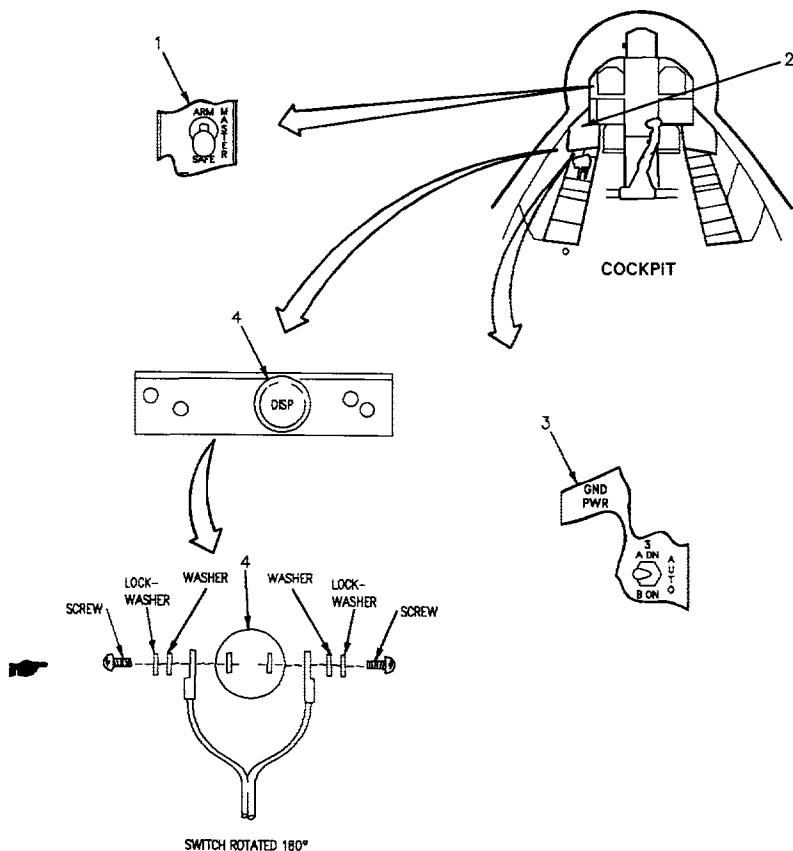


Figure 1. Countermeasures Dispensing System Locator (Sheet 1)

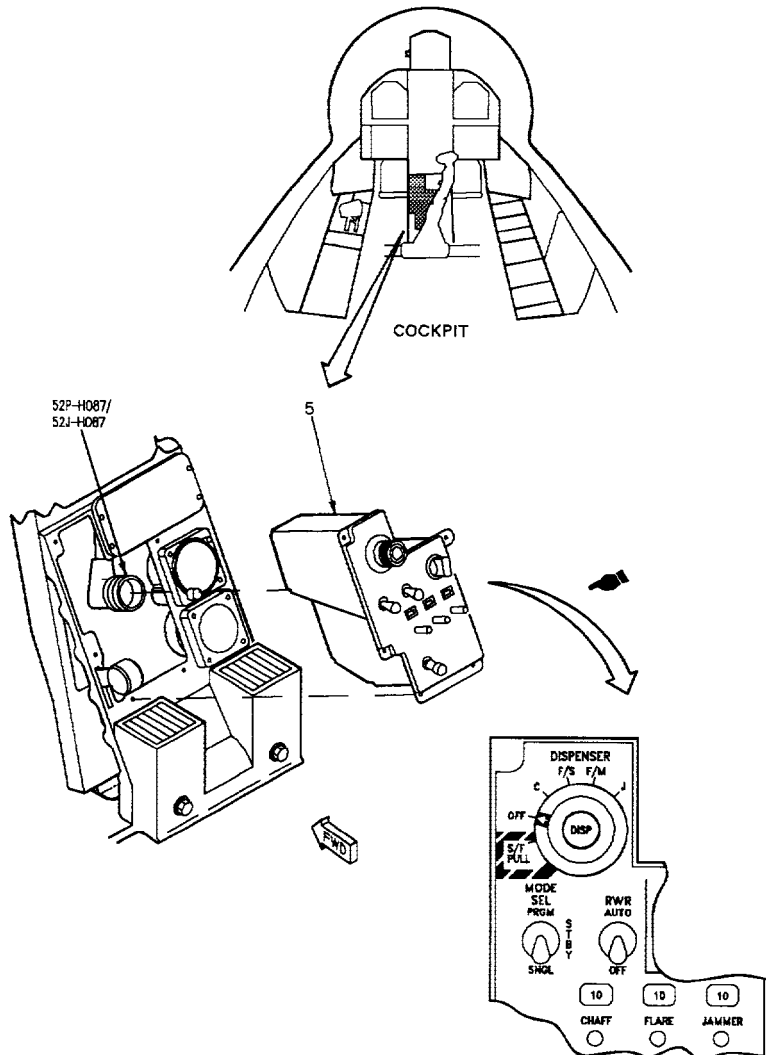


Figure 1. Countermeasures Dispensing System Locator (Sheet 2)

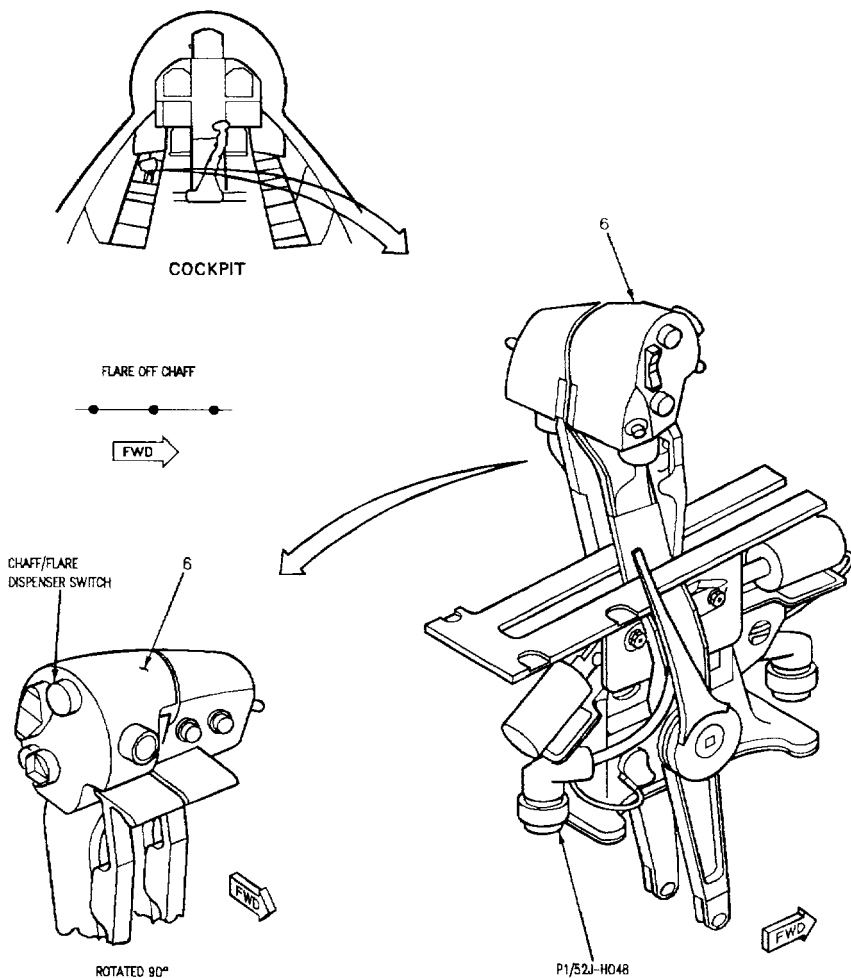


Figure 1. Countermeasures Dispensing System Locator (Sheet 3)

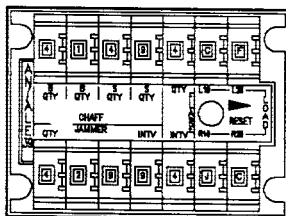
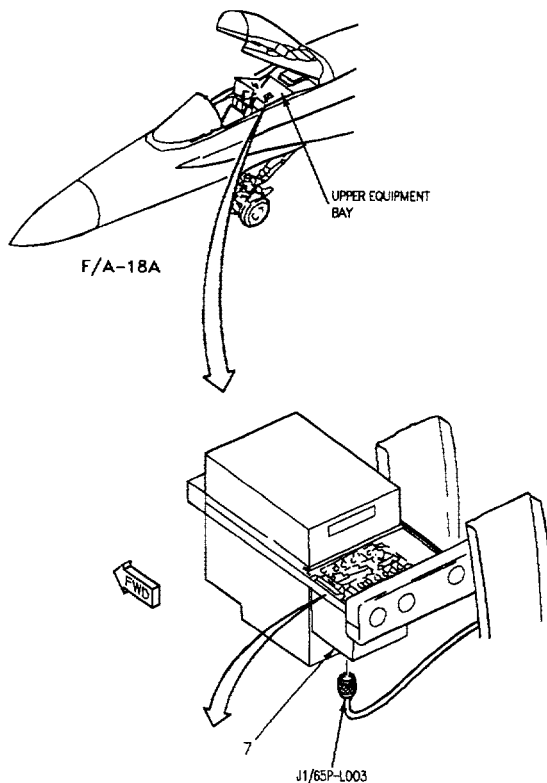


Figure 1. Countermeasures Dispensing System Locator (Sheet 4)

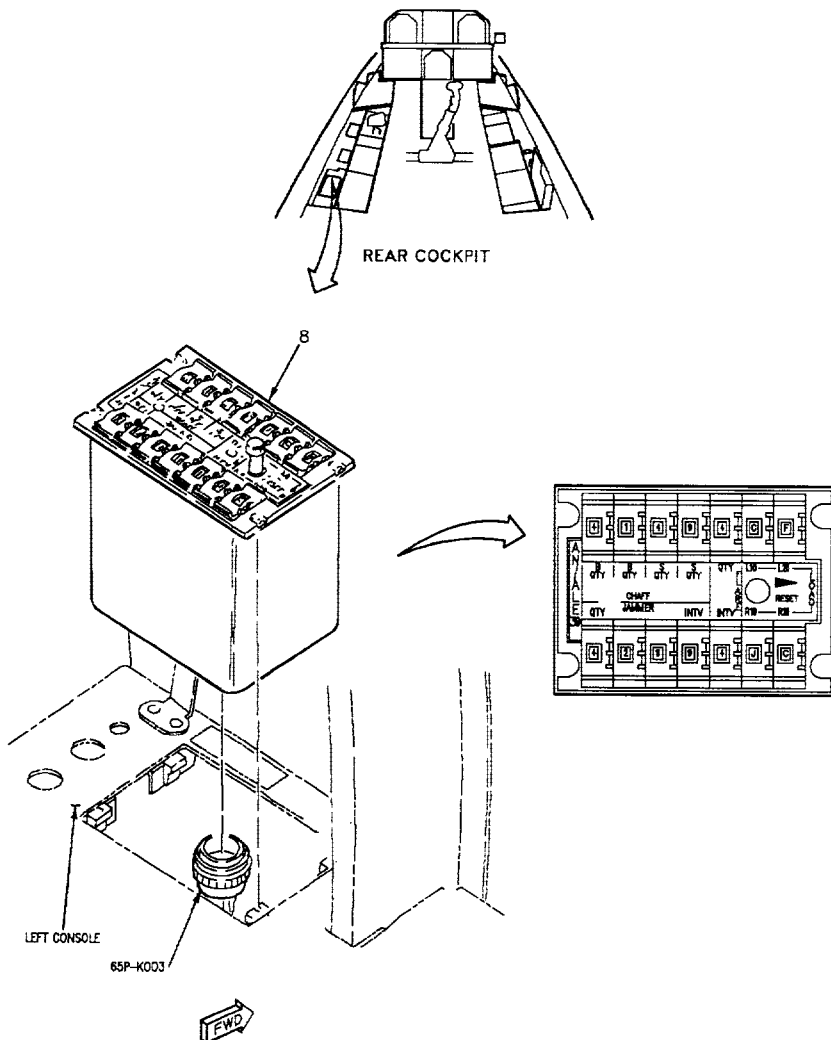
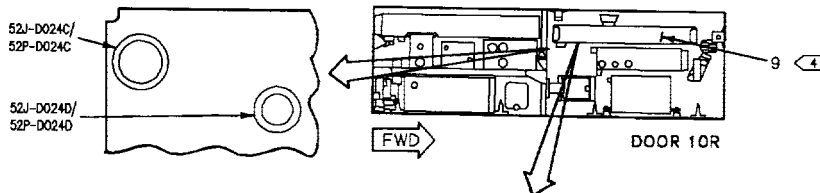
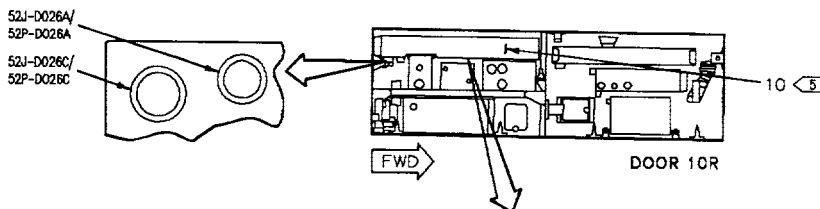


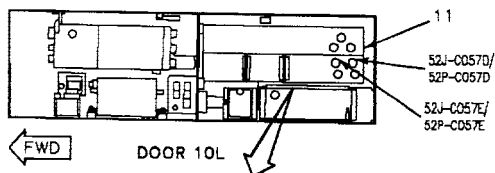
Figure 1. Countermeasures Dispensing System Locator (Sheet 5)



4 52A-D024 NO. 2 CIRCUIT BREAKER PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
D11	650B0025	AN/ALE-39 CONT	R2B/VDC
D12	650B0024	AN/ALE-39 PWR	R2B/VDC

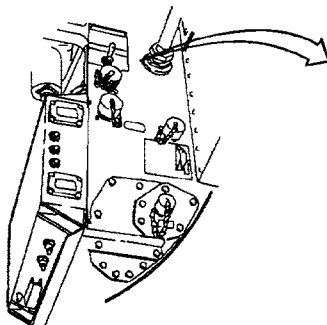
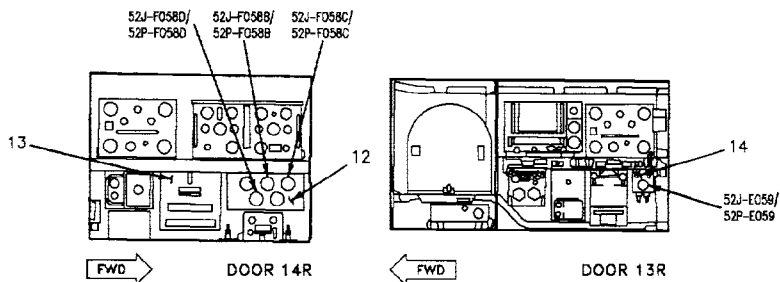


5 52A-D026 NO. 4 CIRCUIT BREAKER PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
A9	650B0025	AN/ALE-39 CONT	R2B/VDC
B9	650B0024	AN/ALE-39 PWR	R2B/VDC

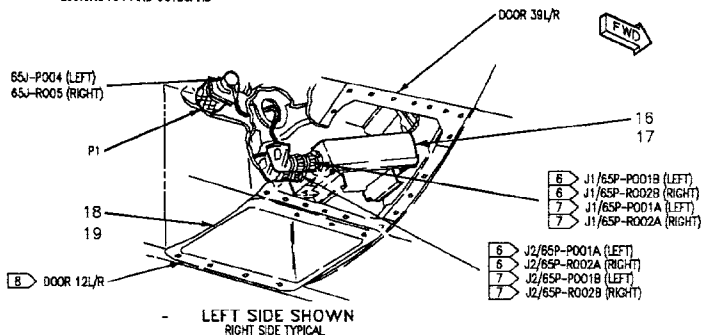
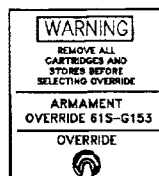


52A-C057 NO. 7 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
A6	61C8C154	MSTR ARM	L2B/VDC

Figure 1. Countermeasures Dispensing System Locator (Sheet 6)



NOSE WHEELWELL, LEFT SIDE
LOOKING AFT AND OUTBOARD



LEFT SIDE SHOWN
RIGHT SIDE TYPICAL

Figure 1. Countermeasures Dispensing System Locator (Sheet 7)

NOMENCLATURE		INDEX NO.	REF DES
	ARMAMENT COMPUTER CP-1342/AYQ-9(V)	13	61A-F001
	ARMAMENT OVERRIDE SWITCH	15	61S-G153
	ECM CONTROL PANEL ASSEMBLY	5	52A-H087
	ECM DISP SWITCH	4	65A-H027
	GND PWR CONTROL PANEL ASSEMBLY	3	1A-H004
	LDG GEAR CONTROL	2	12A-H008
	LEFT DISPENSER HOUSING MX-7721/ALE-29A	18	65A-P004
	LEFT ELECTRICAL SWITCHING UNIT SA-1874/ALE-39	17	65A-P001
	MASTER ARM CONTROL PANEL ASSEMBLY	1	52A-H075
4	NO. 2 CIRCUIT BREAKER PANEL ASSEMBLY	9	52A-D024
	NO. 2 RELAY PANEL ASSEMBLY	12	52A-F058
	NO. 3 RELAY PANEL ASSEMBLY	14	52A-E059
5	NO. 4 CIRCUIT BREAKER PANEL ASSEMBLY	10	52A-D026
	NO. 7 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY	11	52A-C057
3	PROGRAMMER MX-9254/ALE 39	7	65A-L003
2	PROGRAMMER MX-9254/ALE-39	8	65A-K003
	RIGHT DISPENSER HOUSING MX-7721/ALE-29A	19	65A-R005
	RIGHT ELECTRICAL SWITCHING UNIT SA-1874/ALE-39	16	65A-R002
	RIGHT THROTTLE GRIP	6	52A-H048

LEGEND

1. AIRCRAFT CONNECTOR LOCATIONS ARE SHOWN IN A1-F18A()-WDM-000.

- 2 F/A-18B
- 3 F/A-18A.
- 4 161353 THRU 161359.
- 5 161360 AND UP.
- 6 161353 THRU 161521.
- 7 161522 AND UP.
- 8 162826 AND UP.

Figure 1. Countermeasures Dispensing System Locator (Sheet 8)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - FUNCTIONAL

COUNTERMEASURES DISPENSING SYSTEM

Reference Material

None

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Record of Applicable Technical Directives

None

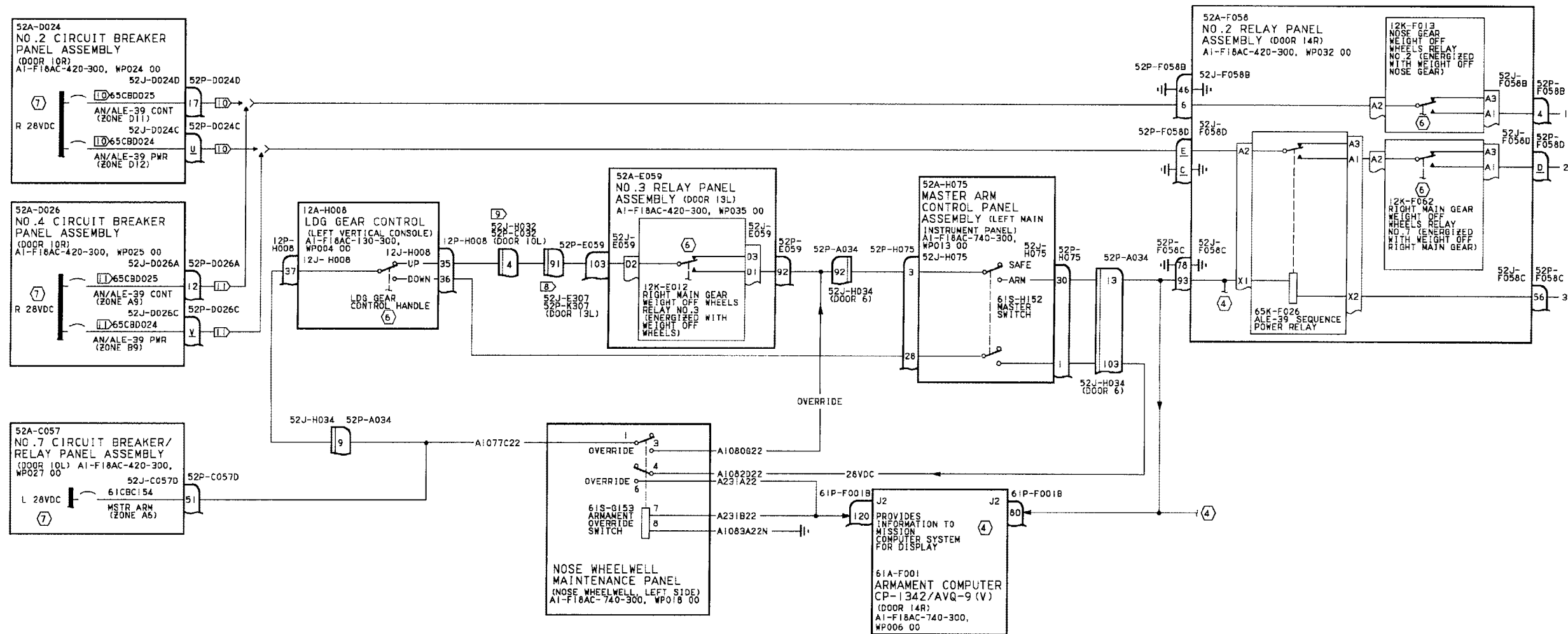


Figure 1.

Figure 1. Countermeasures Dispensing System Functional Schematic (Sheet 1)

Figure 1.

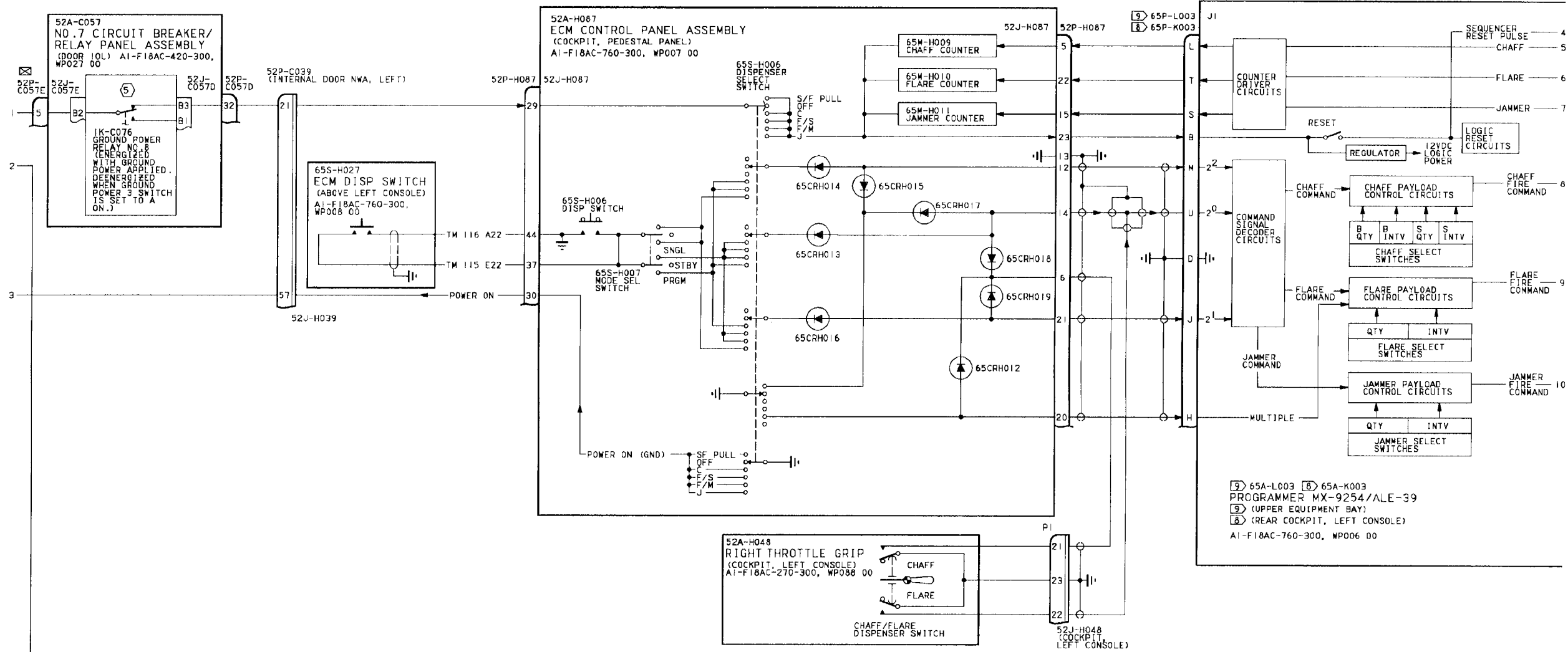


Figure 1.

Figure 1. Countermeasures Dispensing System Functional Schematic (Sheet 2)

Figure 1.

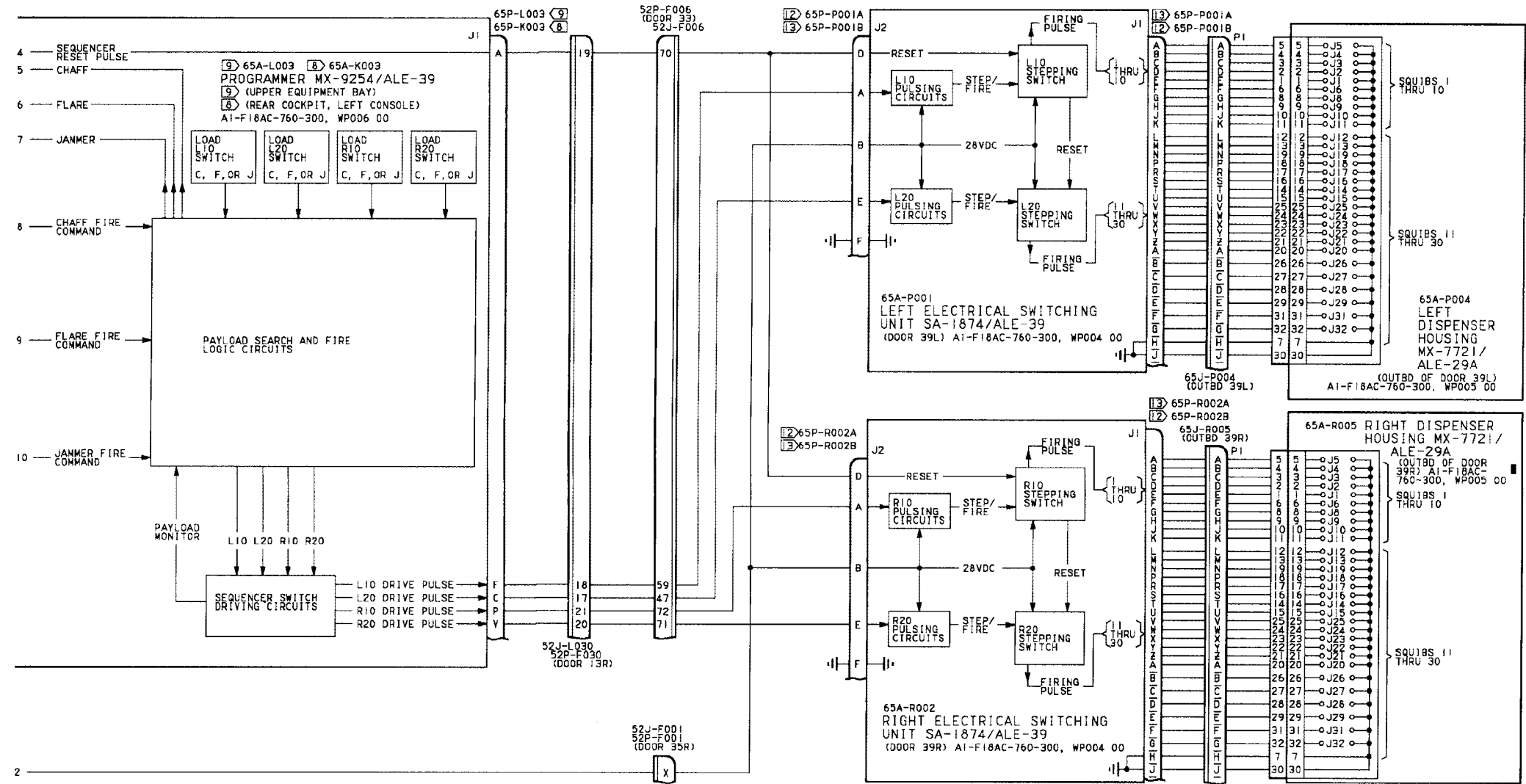


Figure 1.

Figure 1. Countermeasures Dispensing System Functional Schematic (Sheet 3)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

LOCATOR

COUNTERMEASURES SET

Reference Material

None

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2

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 50	16 Oct 84	Tactical Electronic Warfare Systems, ALR-67 Countermeasures, Modification of (ECP MDA-F/A-18-003R1 C1/C2/C3)	15 Jun 85	-

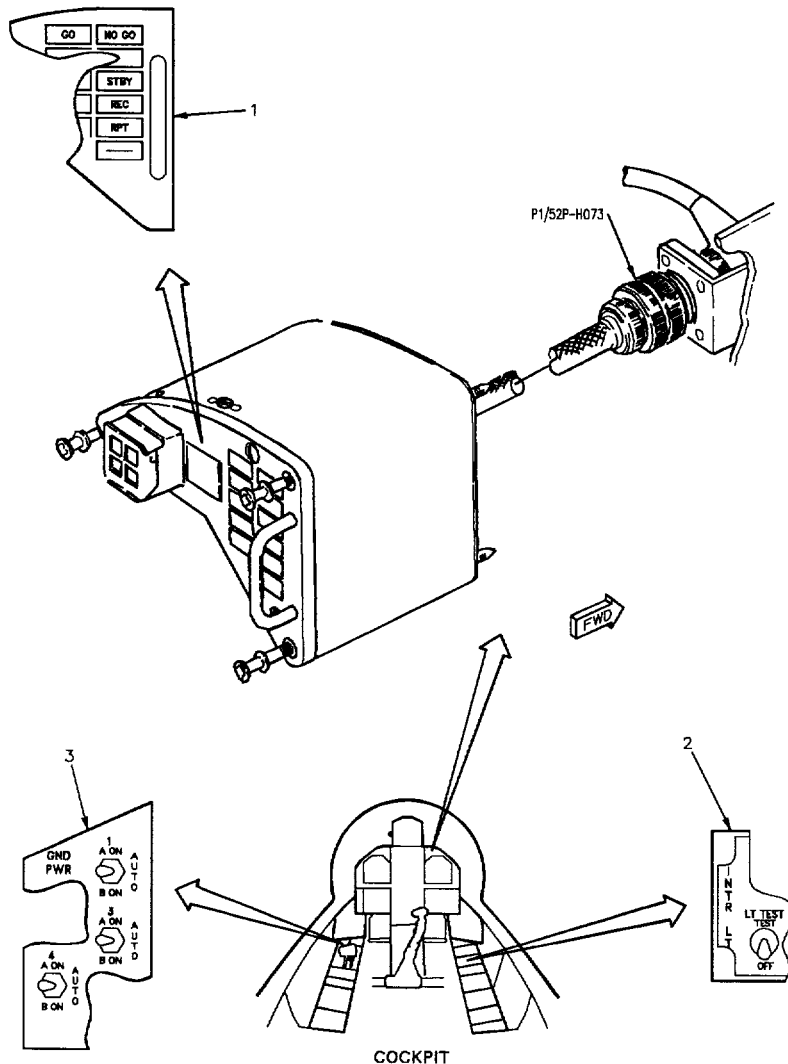


Figure 1. Countermeasures Set Locator (Sheet 1)

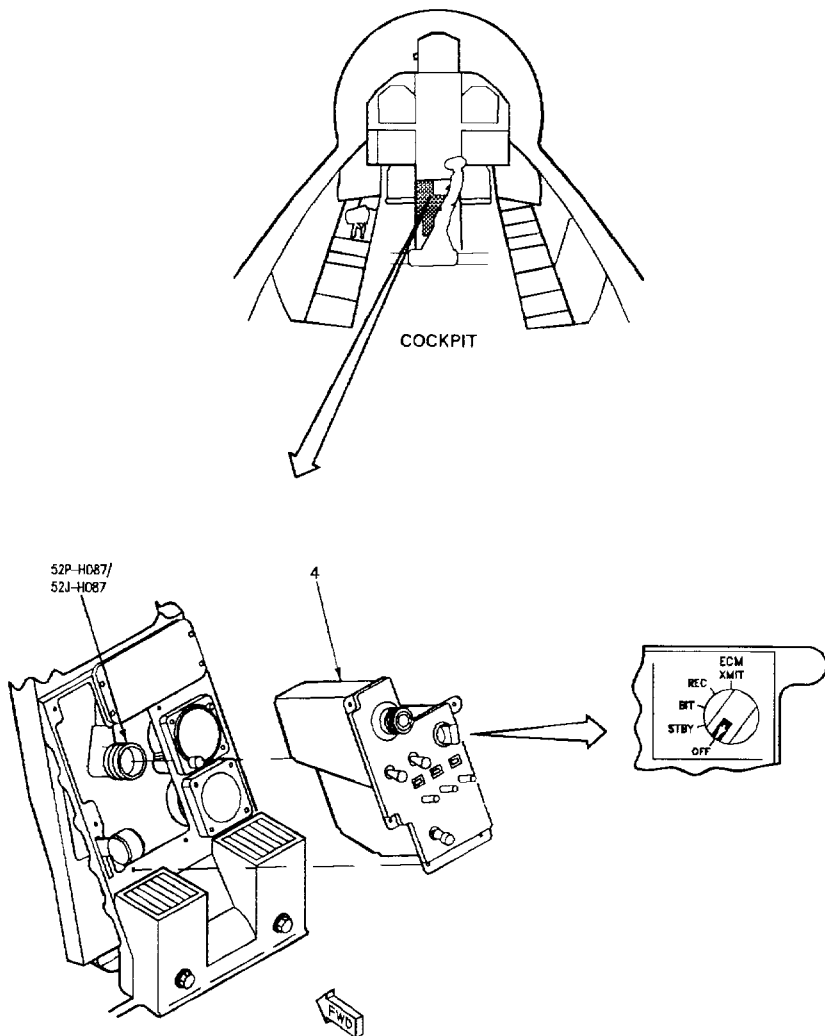


Figure 1. Countermeasures Set Locator (Sheet 2)

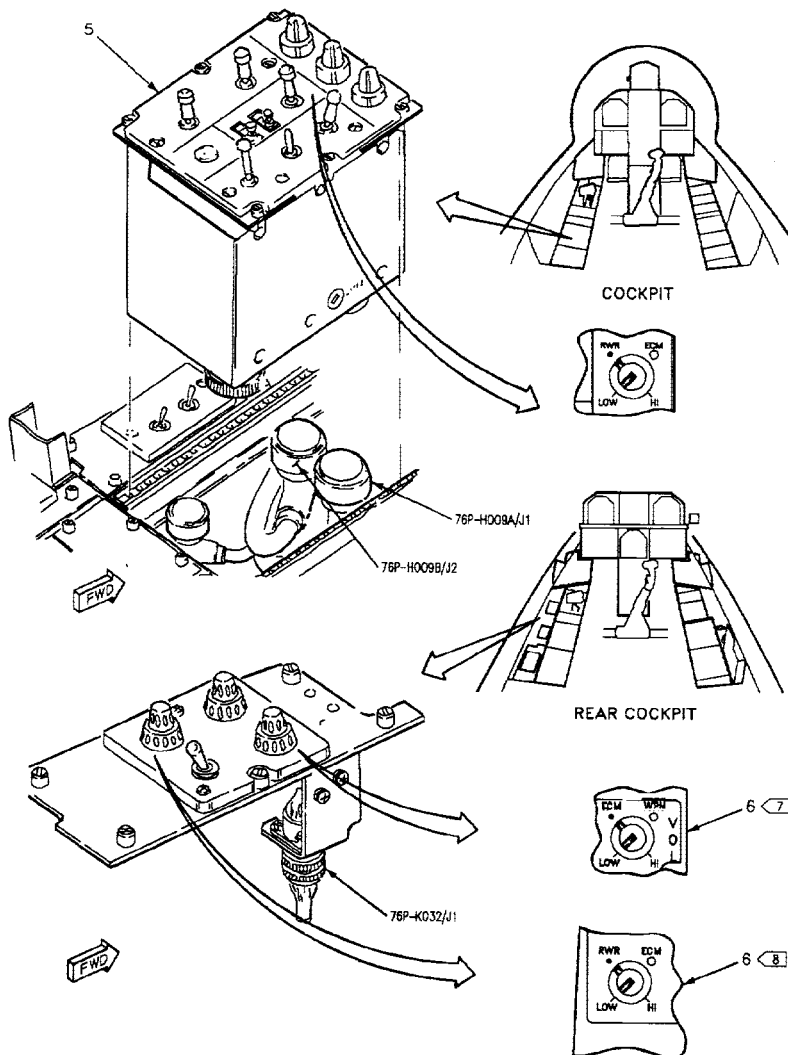


Figure 1. Countermeasures Set Locator (Sheet 3)

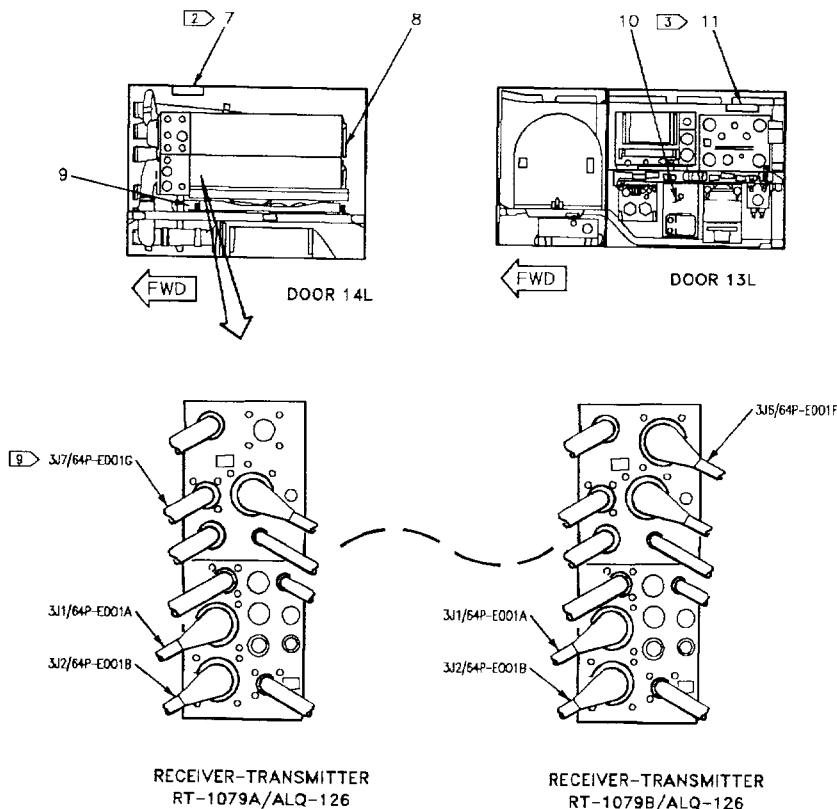


Figure 1. Countermeasures Set Locator (Sheet 4)

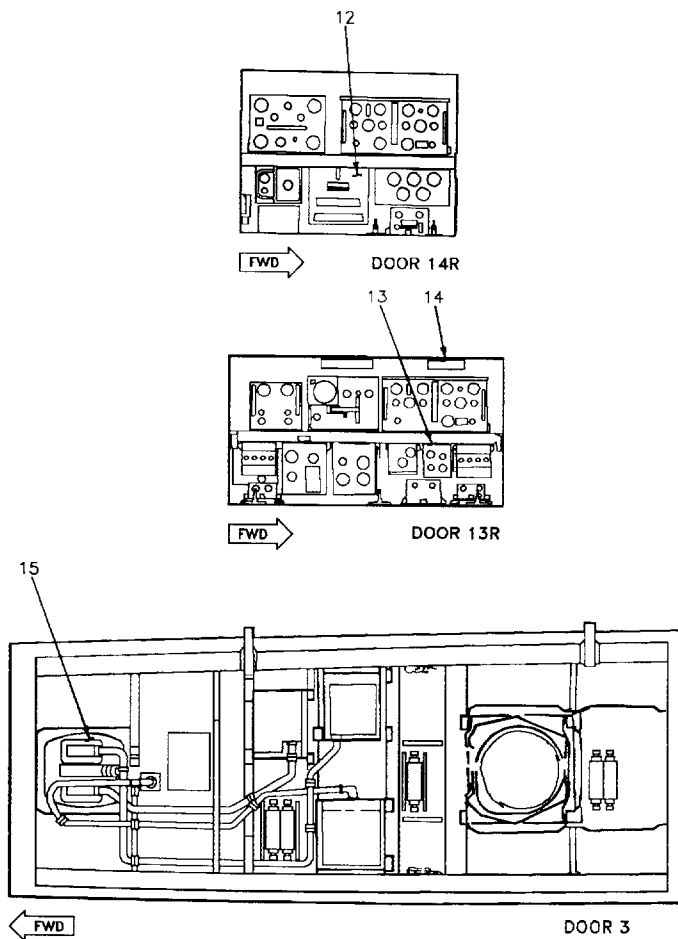
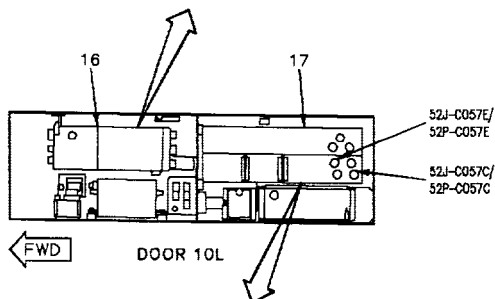


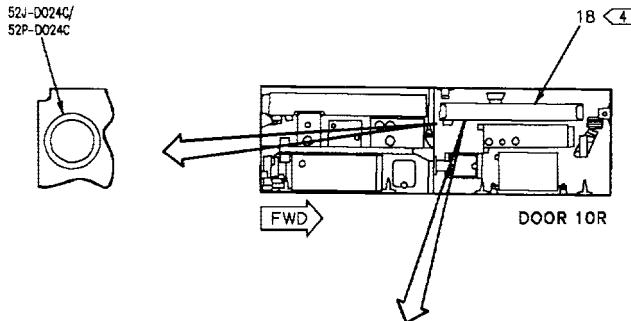
Figure 1. Countermeasures Set Locator (Sheet 5)

52A-C159 NO. 8 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
B1	760BC007	INTER COMM	ESS 24/28VDC

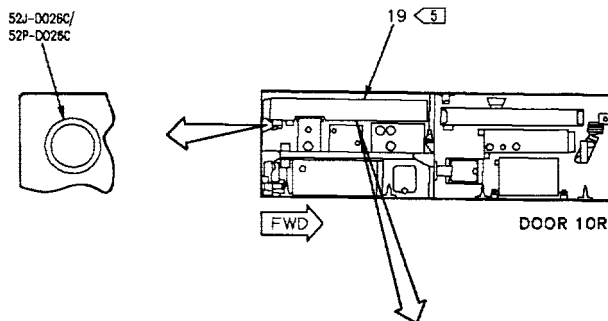


52A-C057 NO. 7 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
A11	640BC011	ALQ-126	L115VACØA
B11	640BC012	ALQ-126	L115VACØB
C11	640BC013	ALQ-126	L115VACØC

Figure 1. Countermeasures Set Locator (Sheet 6)



52A-D024 NO. 2 CIRCUIT BREAKER PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
D5	BCB0005	INT LTS	R28VDC



52A-D026 NO. 4 CIRCUIT BREAKER PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
C10	BCB0005	INT LTS	R28VDC

Figure 1. Countermeasures Set Locator (Sheet 7)

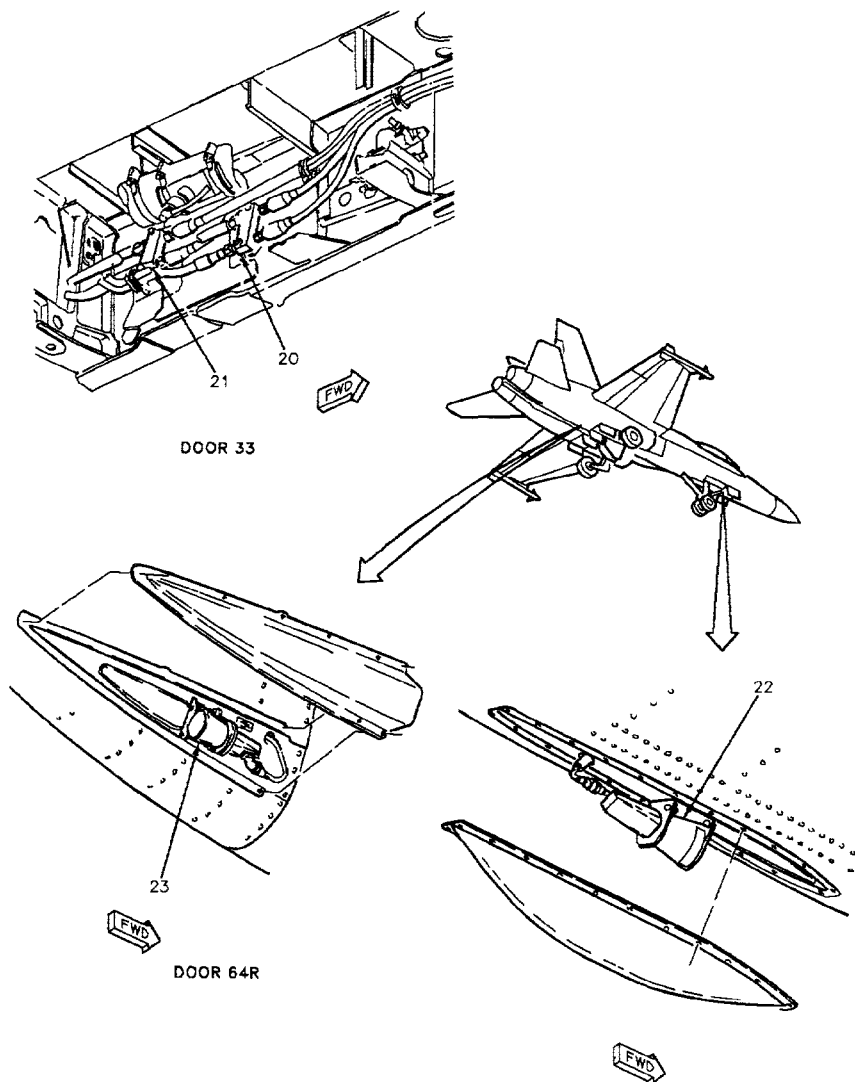


Figure 1. Countermeasures Set Locator (Sheet 8)

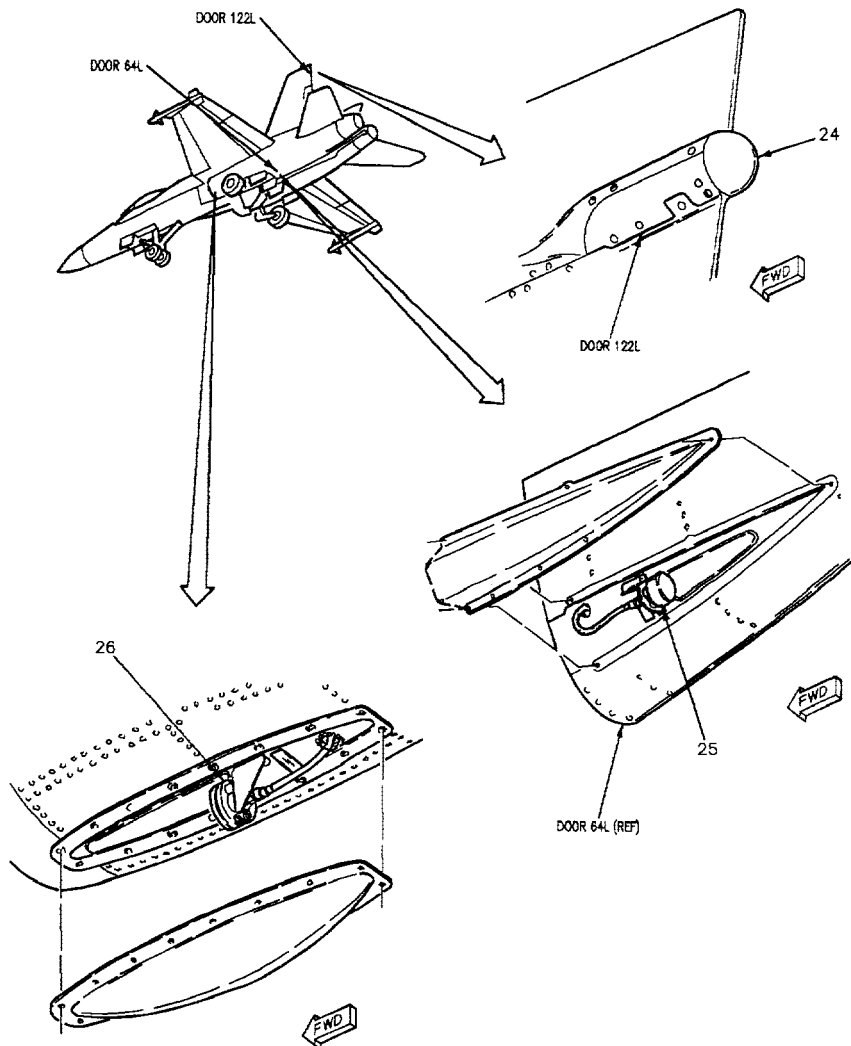


Figure 1. Countermeasures Set Locator (Sheet 9)

LEGEND

1. AIRCRAFT CONNECTOR LOCATIONS ARE SHOWN IN A1-F18A()-WDM-000.
- 2 F/A-18B.
- 3 F/A-18A.
- 4 161353 THRU 161359.
- 5 161360 AND UP.
- 6 161702 AND UP.
- 7 F/A-18B 161354 THRU 161360.
- 8 F/A-18B 161704 AND UP.
- 9 161353 THRU 161528; ALSO 161702 THRU 163175 BEFORE F/A-18 AFC 50.

NOMENCLATURE		INDEX NO.	REF DES
	AFT HIGH BAND ANTENNA AS-3421/ALQ-126	24	64E-S018
	AFT LOW BAND ANTENNA AS-3418/ALQ-126	25	64E-S006
	AFT MID BAND ANTENNA AS-3419/ALQ-126	23	64E-T008
	ARMAMENT COMPUTER CP-1342/AYQ-9(V)	12	61A-F001
6	COUNTERMEASURES COMPUTER CP-1293()/ALR-67(V)	10	62A-E006
	ECM CONTROL PANEL ASSEMBLY	4	52A-H087
	ECM COOLING AIR CONTROL VALVE	9	22L-E098
	FORWARD HIGH BAND ANTENNA AS-3385/ALQ-126	15	64E-B017
	FORWARD LOW BAND ANTENNA AS-3418/ALQ-126	26	64E-P005
	FORWARD MID BAND ANTENNA AS-3420/ALQ-126	22	64E-R007
	GND PWR CONTROL PANEL ASSEMBLY	3	1A-H004
	HIGH BAND COUPLER CU-2243/A	14	64DCF004
2	HIGH BAND SUPPRESSION FILTER F-1471/ALQ-126	7	64FLE010
3	HIGH BAND SUPPRESSION FILTER F-1471/ALQ-126	11	64FLE010
	INTERCOMMUNICATION AMPLIFIER-CONTROL	5	76A-H009
	INTERFERENCE BLANKER MX-9965/A	13	66A-F001
	INTR LT CONTROL BOX PANEL ASSEMBLY	2	8A-J002
	LH ADVISORY AND THREAT WARNING INDICATOR PANEL	1	52A-H073
	LOW BAND COUPLER CU-2264/A	20	64DCE003
	LOW BAND COUPLER CU-2264/A	21	64DCE002
4	NO. 2 CIRCUIT BREAKER PANEL ASSEMBLY	18	52A-D024
5	NO. 4 CIRCUIT BREAKER PANEL ASSEMBLY	19	52A-D026
	NO. 7 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY	17	52A-C057

Figure 1. Countermeasures Set Locator (Sheet 10)

NOMENCLATURE	INDEX NO.	REF DES
NO. 8 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY	16	52A-C159
RECEIVER-TRANSMITTER RT-1079B/ALQ-126	8	64A-E001
VOLUME CONTROL PANEL ASSEMBLY	6	76A-K032

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

COUNTERMEASURES SET

Title	WP Number
Schematic - Receiver-Transmitter RT-1079A/ALQ-126	008 01
Schematic - Receiver-Transmitter RT-1079B/ALQ-126	008 02

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - FUNCTIONAL

COUNTERMEASURES SET (ALQ-126A)

Reference Material

None

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Receiver-Transmitter RT-1079A/ALQ-126 Functional Schematic, Figure 1 2

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 50	16 Oct 84	Tactical Electronic Warfare Systems, ALR-67 Countermeasures, Modification of (ECP MDA-F/A-18-003R1 C1/C2/C3)	1 Oct 84	-

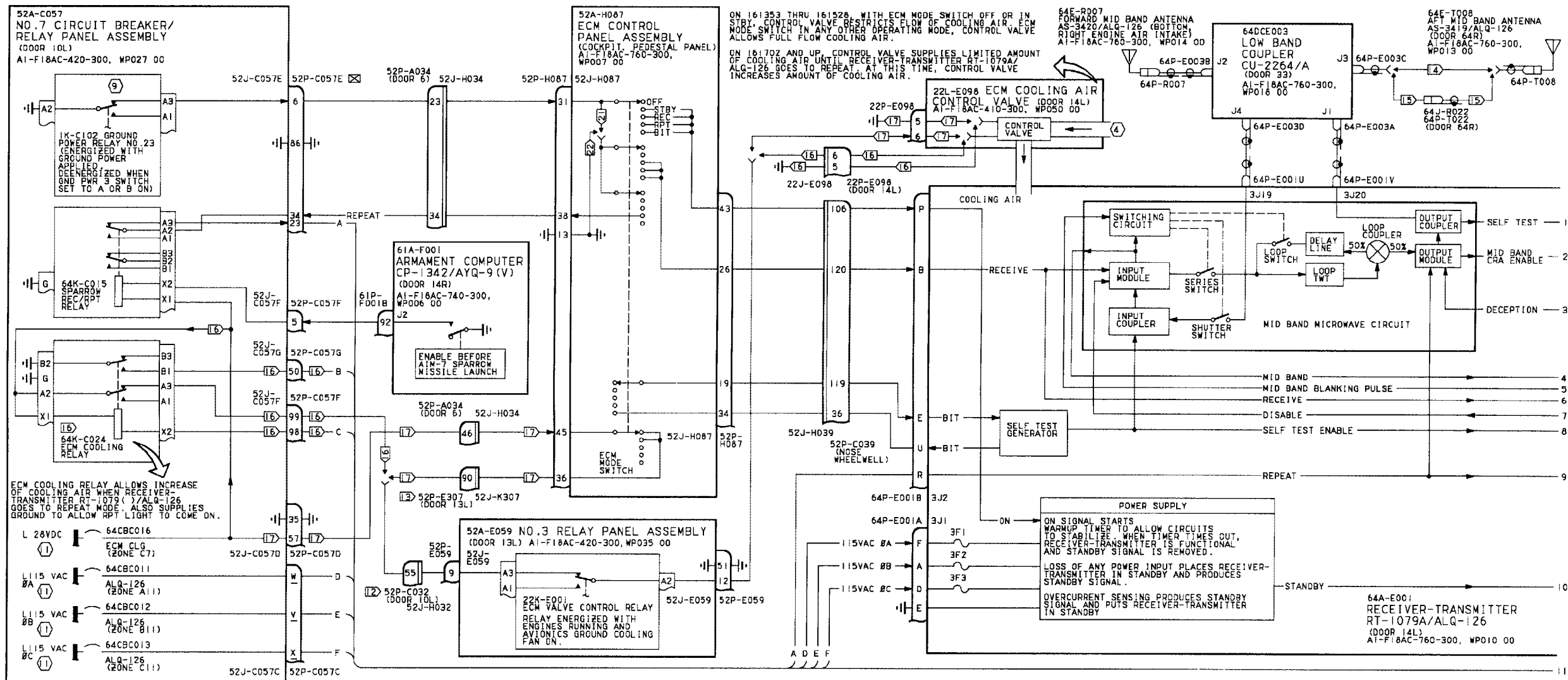


Figure 1.

Figure 1. Receiver-Transmitter RT-1079A/ALQ-126 Functional Schematic (Sheet 1)

Figure 1.

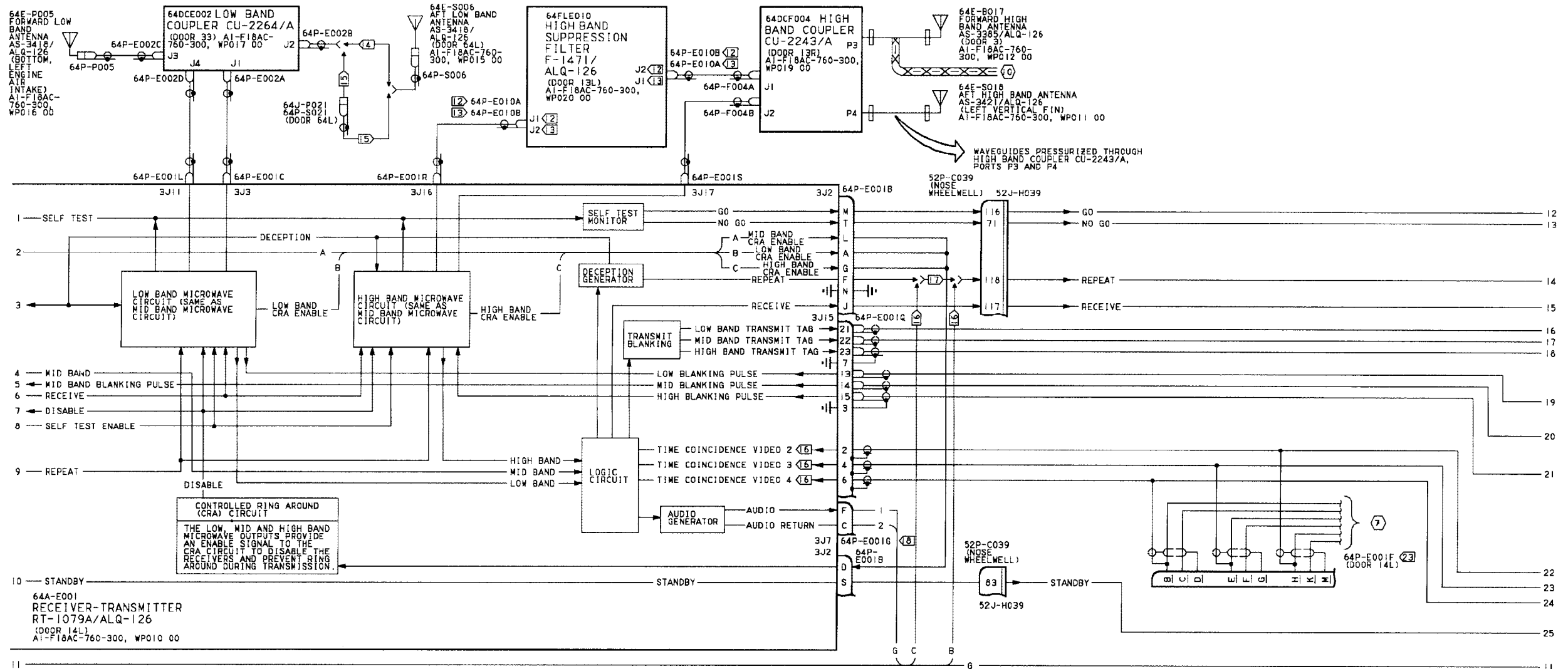


Figure 1.

Figure 1. Receiver-Transmitter RT-1079A/ALQ-126 Functional Schematic (Sheet 2)

Figure 1.

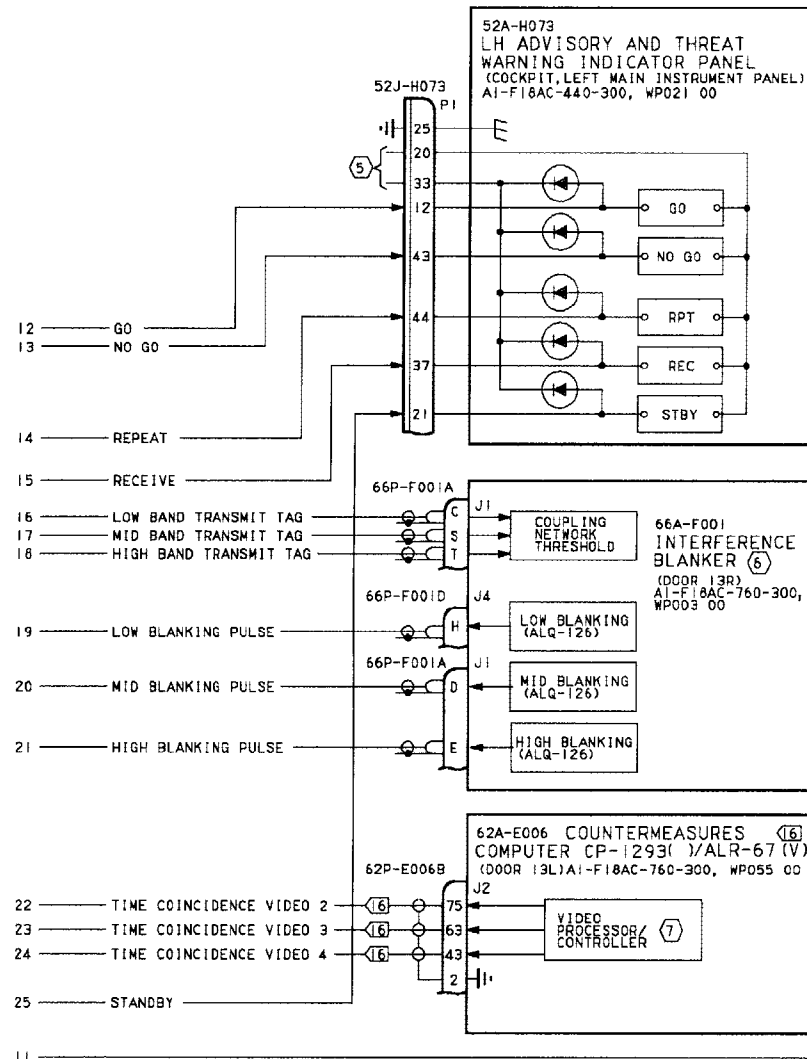


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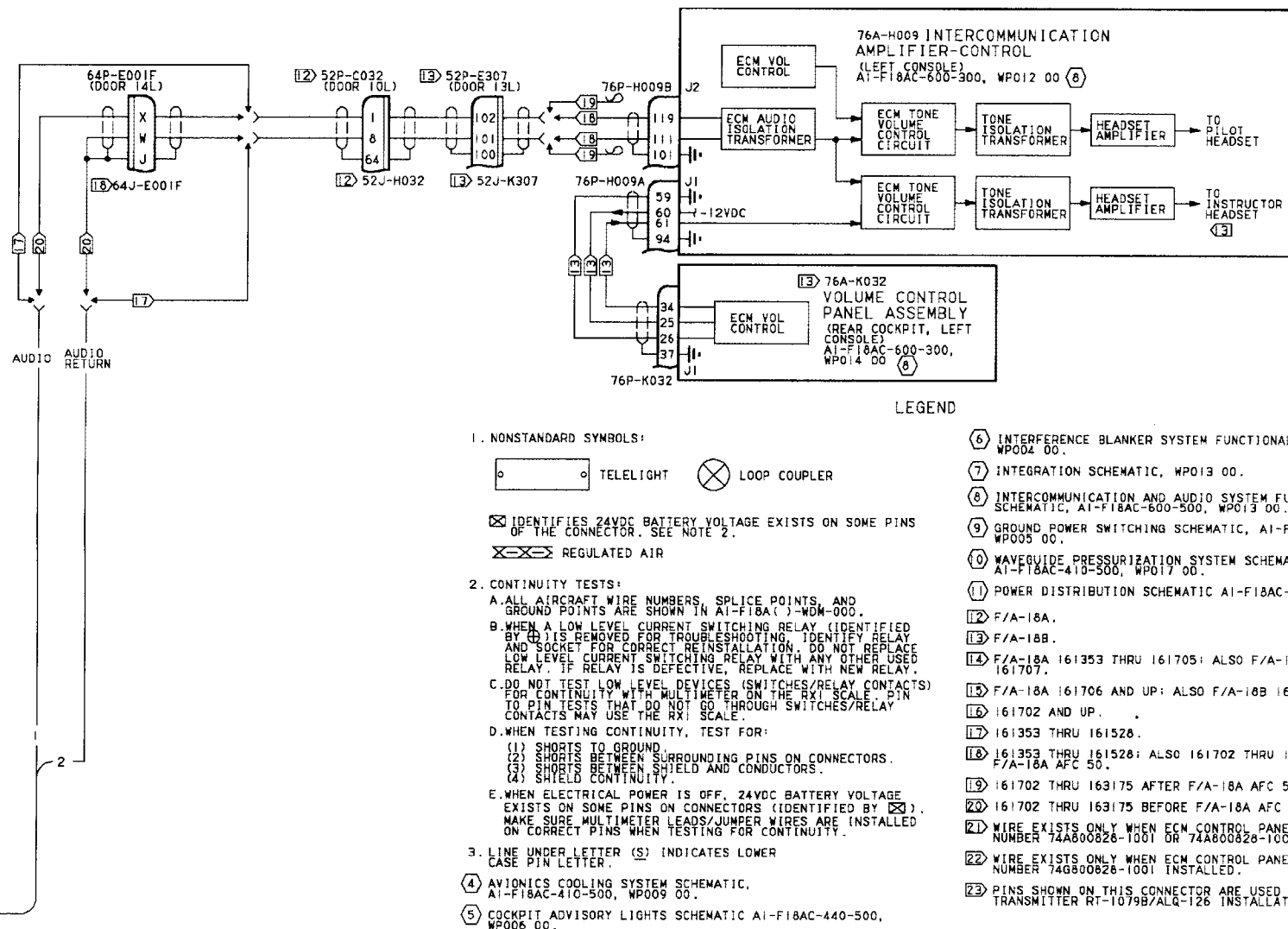


Figure 1. Receiver-Transmitter RT-1079A/ALQ-126 Functional Schematic (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

FUNCTIONAL SCHEMATIC

COUNTERMEASURES SET (ALQ-126B)

Reference Material

None

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None

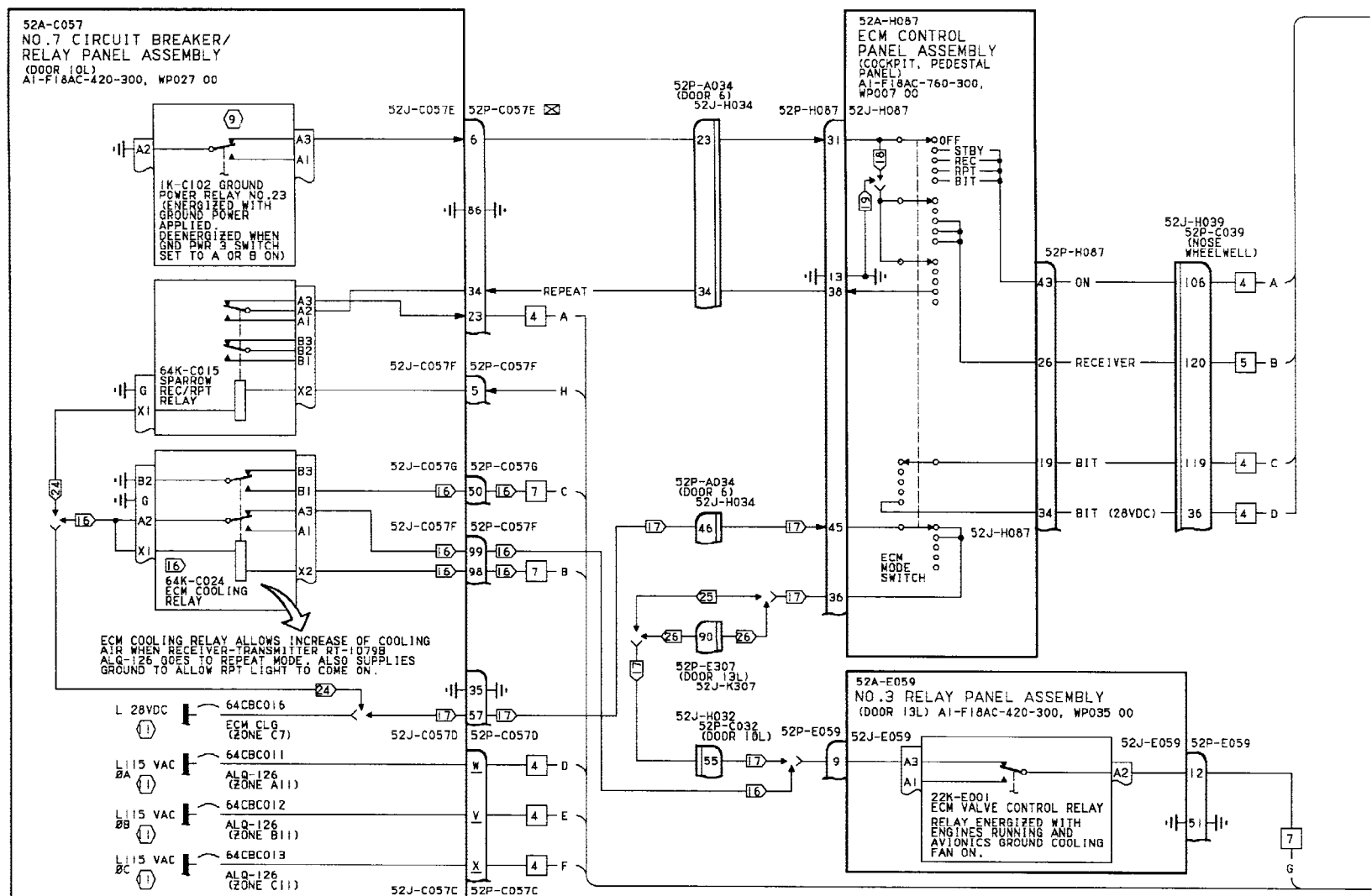


Figure 1.

Figure 1. Receiver-Transmitter RT-1079B/ALQ-126 Functional Schematic (Sheet 1)

Figure 1.

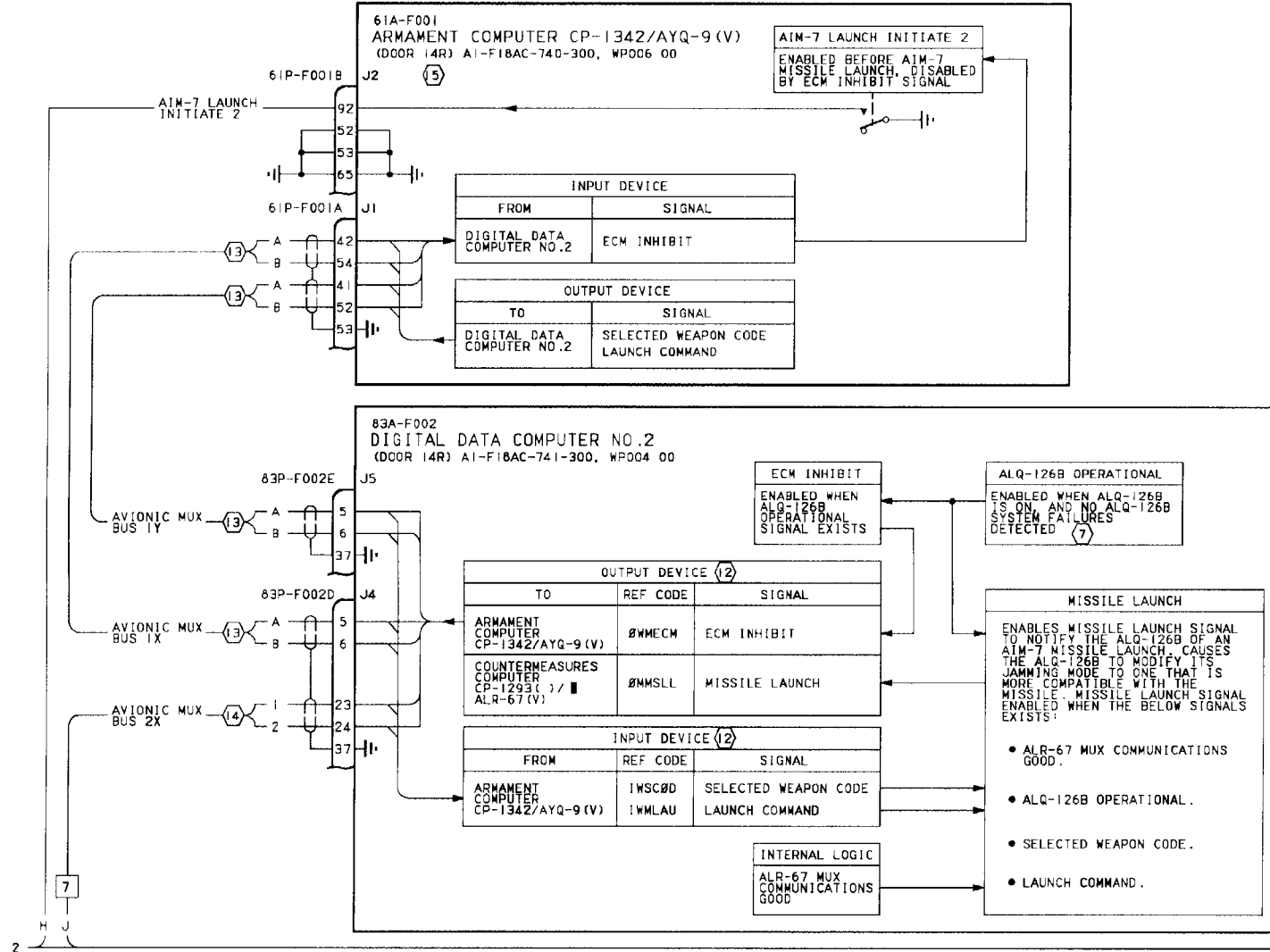


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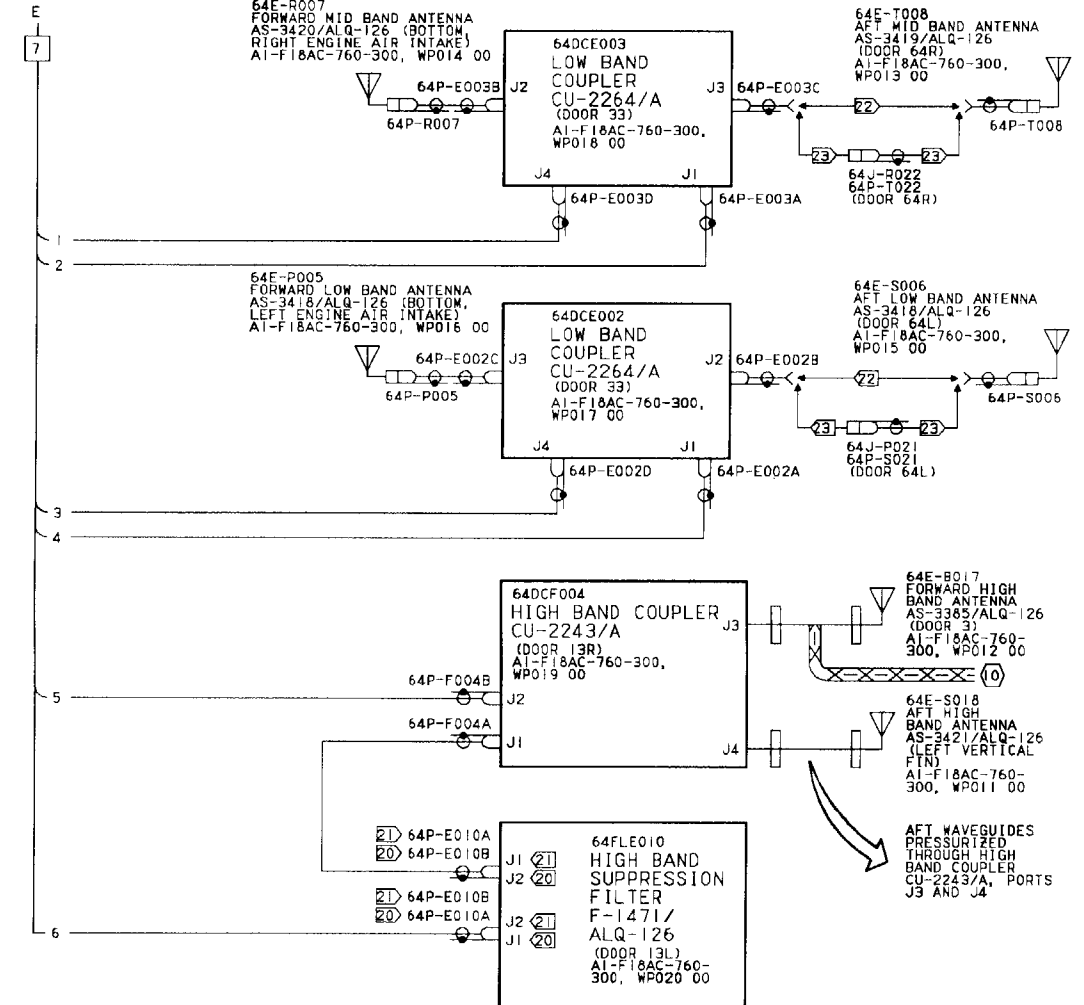


Figure 1. Receiver-Transmitter RT-1079B/ALQ-126 Functional Schematic (Sheet 2)

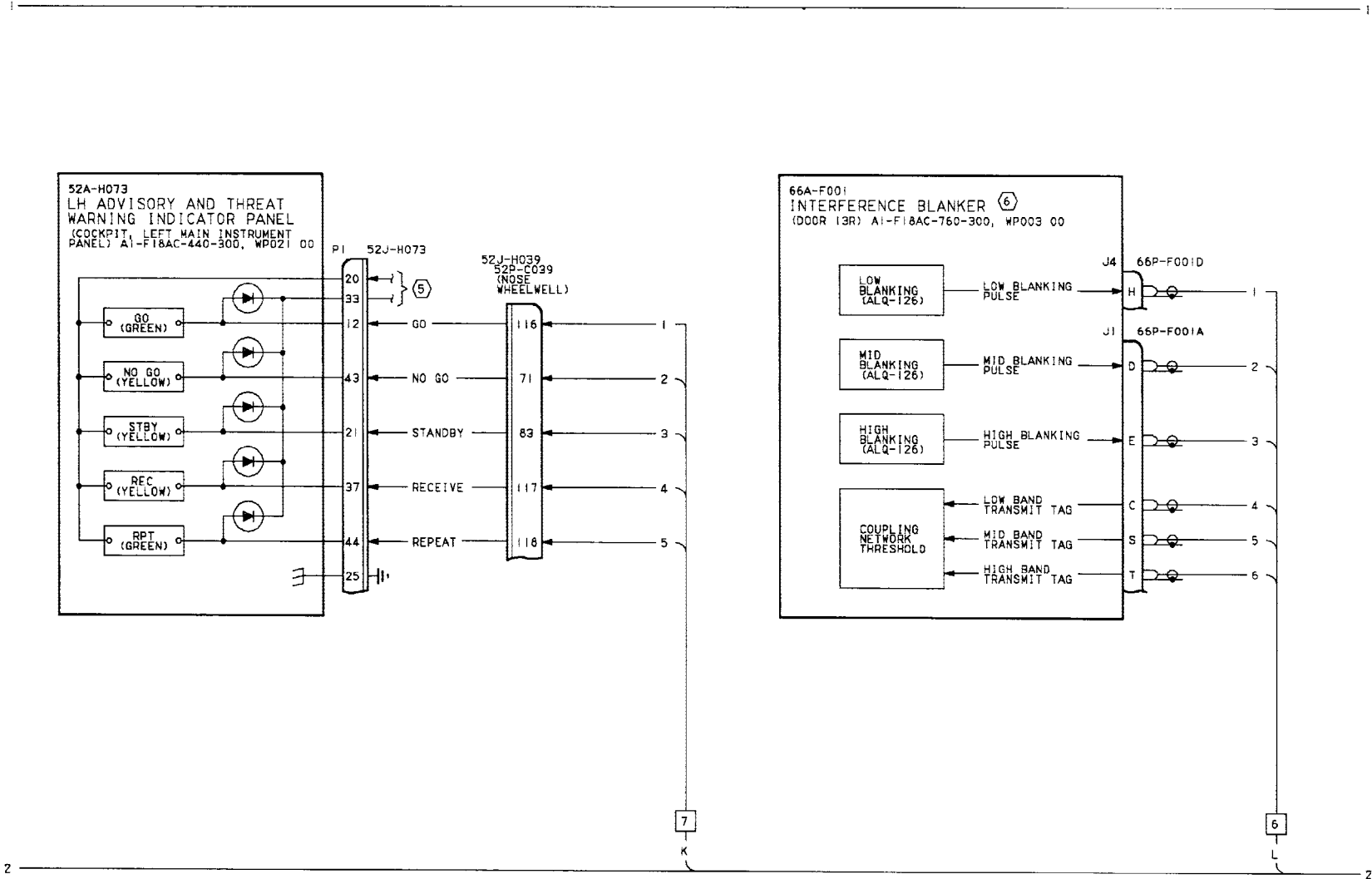


Figure 1.

Figure 1. Receiver-Transmitter RT-1079B/ALQ-126 Functional Schematic (Sheet 3)

Figure 1.

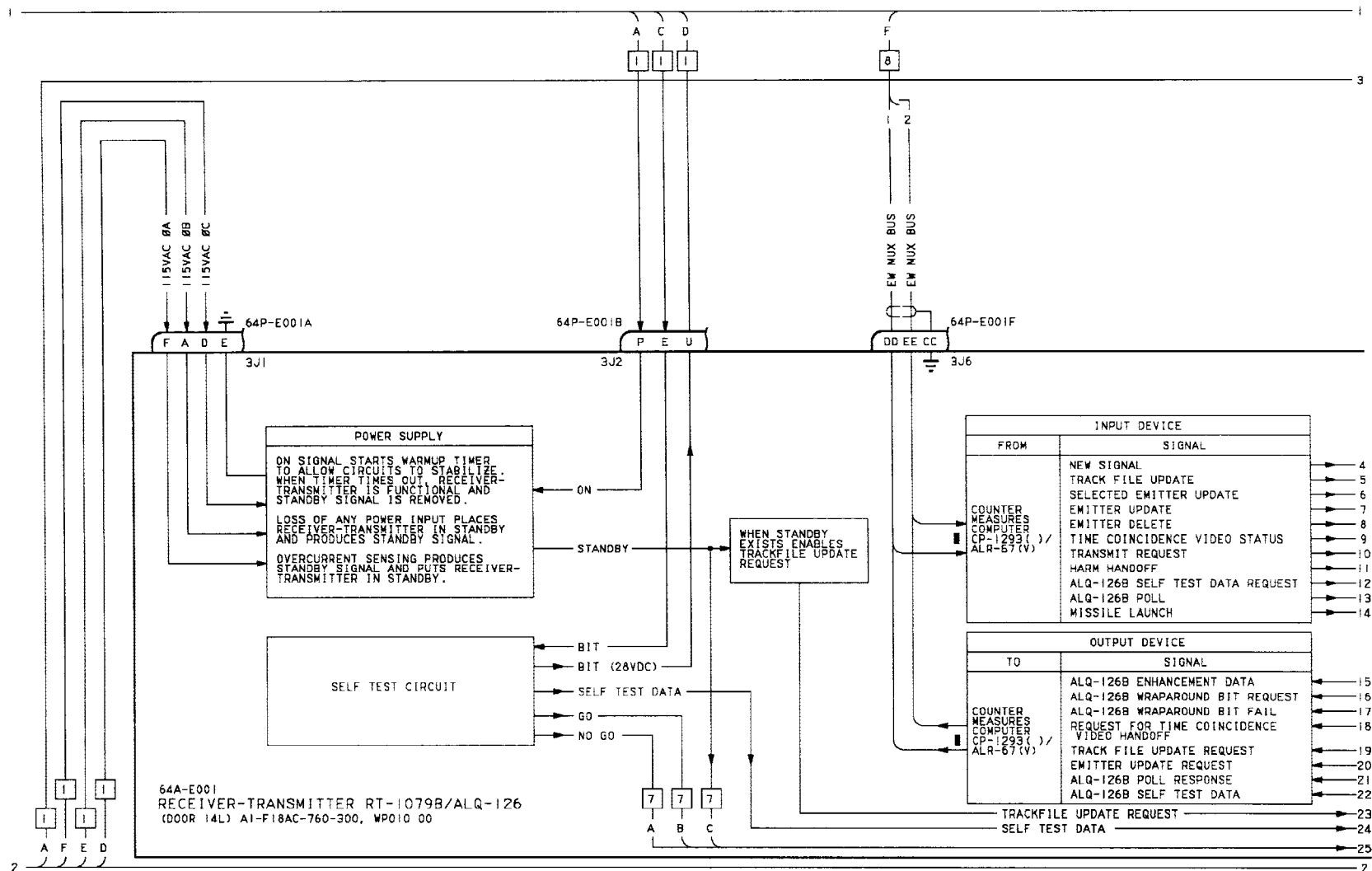


Figure 1.

Figure 1. Receiver-Transmitter RT-1079B/ALQ-126 Function Schematic (Sheet 4)

Figure 1.



Figure 1.

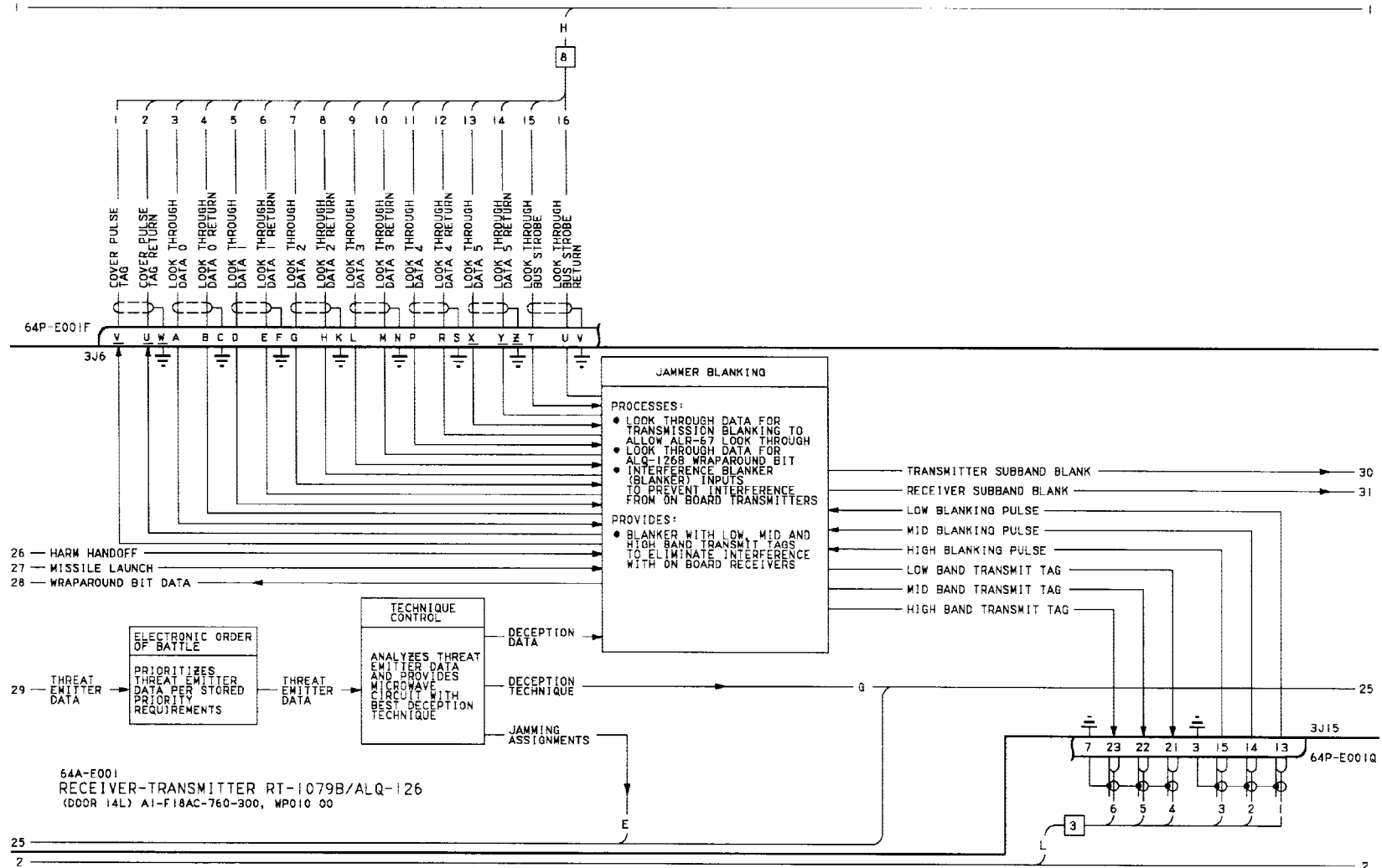


Figure 1.

Figure 1. Receiver-Transmitter RT-1079B/ALQ-126 Functional Schematic (Sheet 6)

Figure 1.

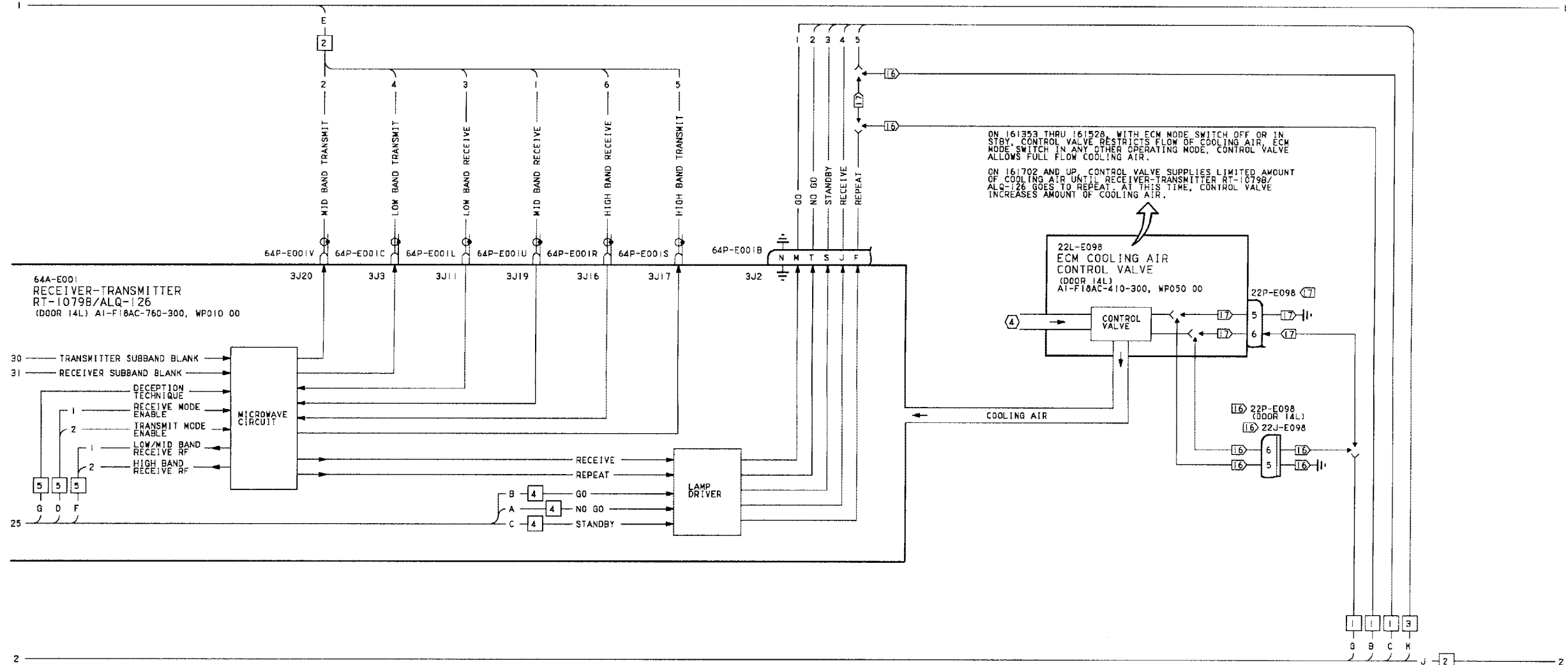


Figure 1.

Figure 1. Receiver-Transmitter RT-1079B/ALQ-126 Functional Schematic (Sheet 7)

Figure 1.

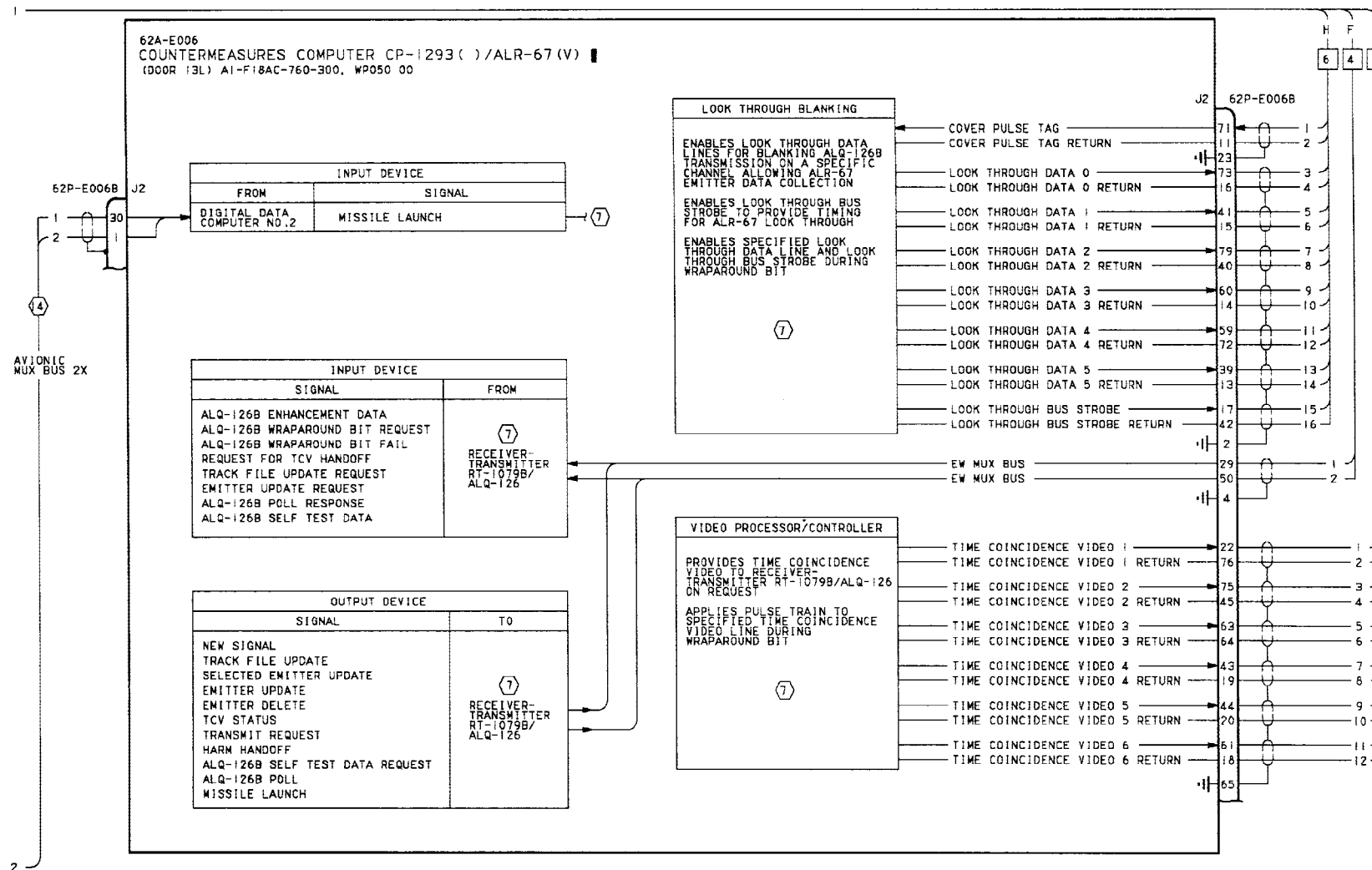


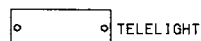
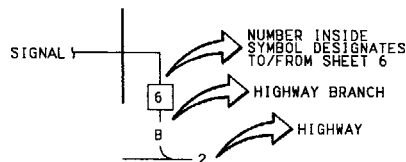
Figure 1.

Figure 1. Receiver-Transmitter RT-1079B/ALQ-126 Functional Schematic (Sheet 8)

Figure 1.

LEGEND

1. NONSTANDARD SYMBOLS



⊠ REGULATED AIR

⊠ IDENTIFIES 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS OF THE CONNECTOR. SEE NOTE 2.

2. CONTINUITY TESTS:

- ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
- WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
- DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON THE RXI SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RXI SCALE.
- WHEN TESTING CONTINUITY, TEST FOR:
 - SHORTS TO GROUND.
 - SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - SHIELD CONTINUITY.
- WHEN ELECTRICAL POWER IS OFF, 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY ⊠). MAKE SURE MULTIMETER LEADS/JUMPER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.

3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTER.

- AVIONICS COOLING SYSTEM SCHEMATIC-EXCEPT COCKPIT, A1-F18AC-410-500, WP009 00.
- COCKPIT ADVISORY LIGHTS SCHEMATIC, A1-F18AC-440-500, WP006 00.
- INTERFERENCE BLANKER SYSTEM FUNCTIONAL SCHEMATIC, WP004 00.
- INTEGRATION SCHEMATIC, WP013 00.
- USED WHEN RECEIVER-TRANSMITTER RT-1079A/ALQ-126 IS INSTALLED.
- GROUND POWER SWITCHING SCHEMATIC, A1-F18AC-420-500, WP005 00.

- WAVEGUIDE PRESSURIZATION SYSTEM SCHEMATIC, A1-F18AC-410-500, WP017 00.
- POWER DISTRIBUTION SCHEMATIC, A1-F18AC-420-500, WP005 00.
- FOR LOGIC DIAGRAMS RELATING TO REF CODE, REFER TO A1-F18A()-OLD-000. FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIN-100.
- AVIONIC MUX CHANNEL 1 SCHEMATIC, A1-F18AC-741-500, WP004 00.
- AVIONIC MUX CHANNEL 2 SCHEMATIC, A1-F18AC-741-500, WP005 00.
- AIM-7 SPARROW AVIONIC INTERFACE SCHEMATIC, A1-F18AC-740-510, WP041 00.
- 161702 AND UP.
- F/A-18A 161353 THRU 161528; ALSO F/A-18B 161354 THRU 161360.
- WHEN ECM CONTROL PANEL ASSEMBLY PART NUMBER 74A800828-1001, 74A800828-1003 OR 74A800828-1005 INSTALLED.
- WIRE EXISTS ONLY WHEN ECM CONTROL PANEL ASSEMBLY PART NUMBER 74G800828-1001 INSTALLED.
- F/A-18A.
- F/A-18B.
- 161353 THRU 161705; ALSO F/A-18B 161707.
- F/A-18A 161706 AND UP; ALSO F/A-18B 161711 AND UP.
- 161353 AND UP.
- F/A-18A 161353 THRU 161528.
- F/A-18B 161354 THRU 161360.

Figure 1.

Figure 1. Receiver-Transmitter RT-1079B/ALQ-126 Functional Schematic (Sheet 9)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

LOCATOR

COUNTERMEASURES WARNING AND CONTROL SYSTEM

EFFECTIVITY: 161702 AND UP

Reference Material

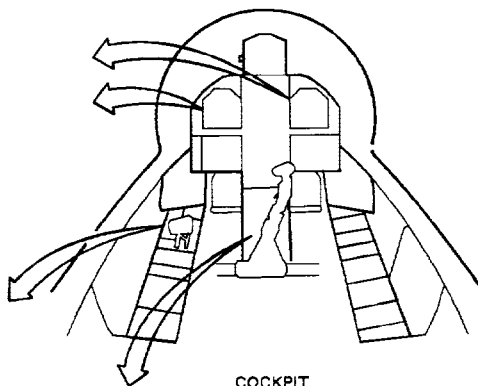
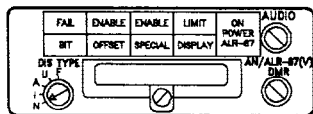
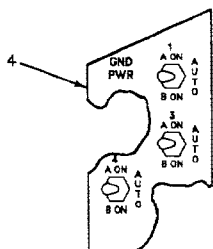
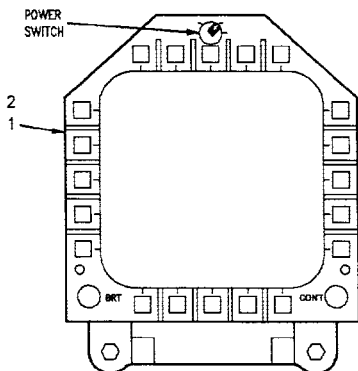
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Record of Applicable Technical Directives

None



COCKPIT

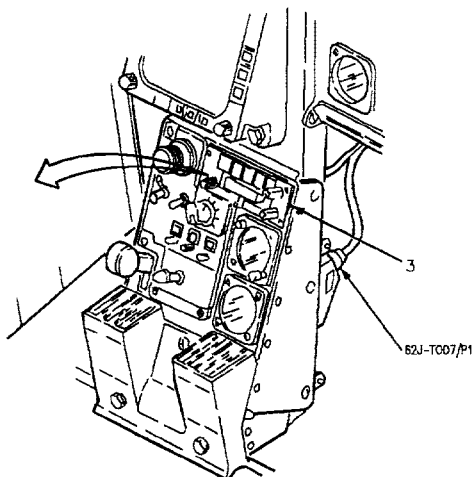


Figure 1. Countermeasures Warning and Control System Locator (Sheet 1)

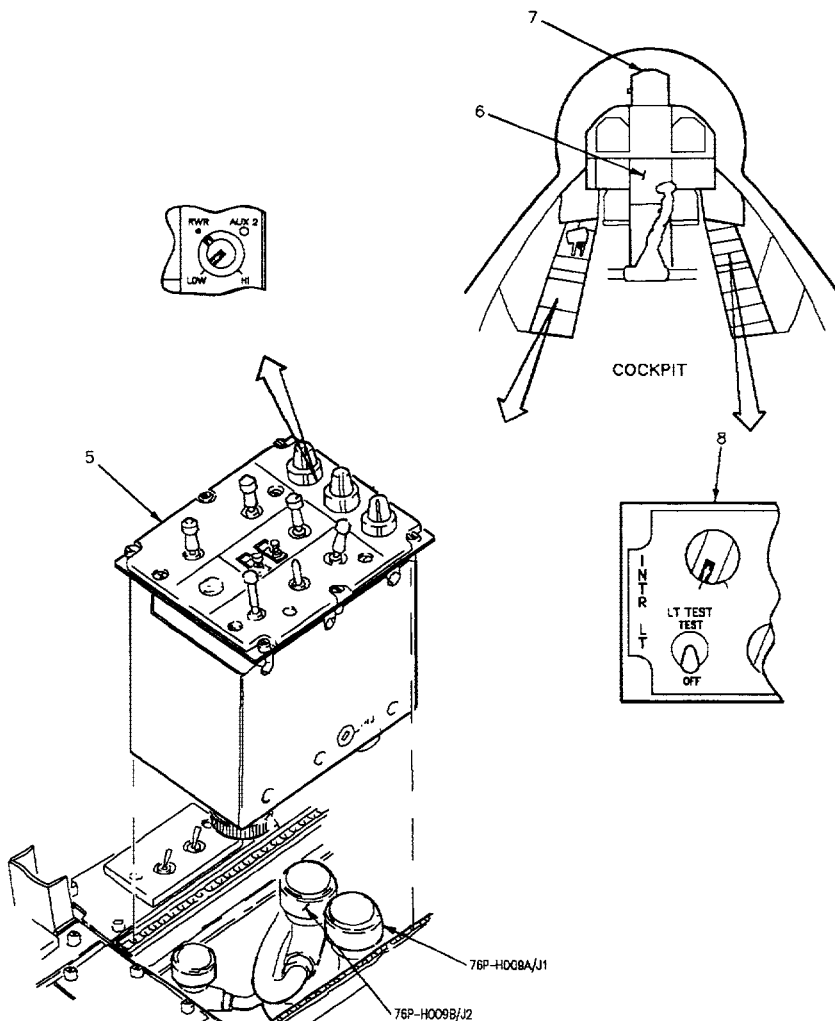


Figure 1. Countermeasures Warning and Control System Locator (Sheet 2)

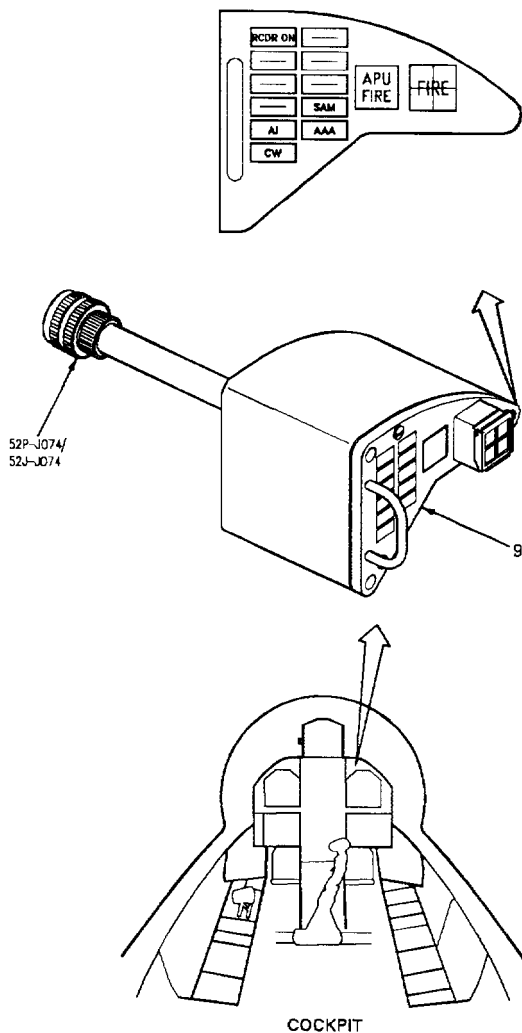


Figure 1. Countermeasures Warning and Control System Locator (Sheet 3)

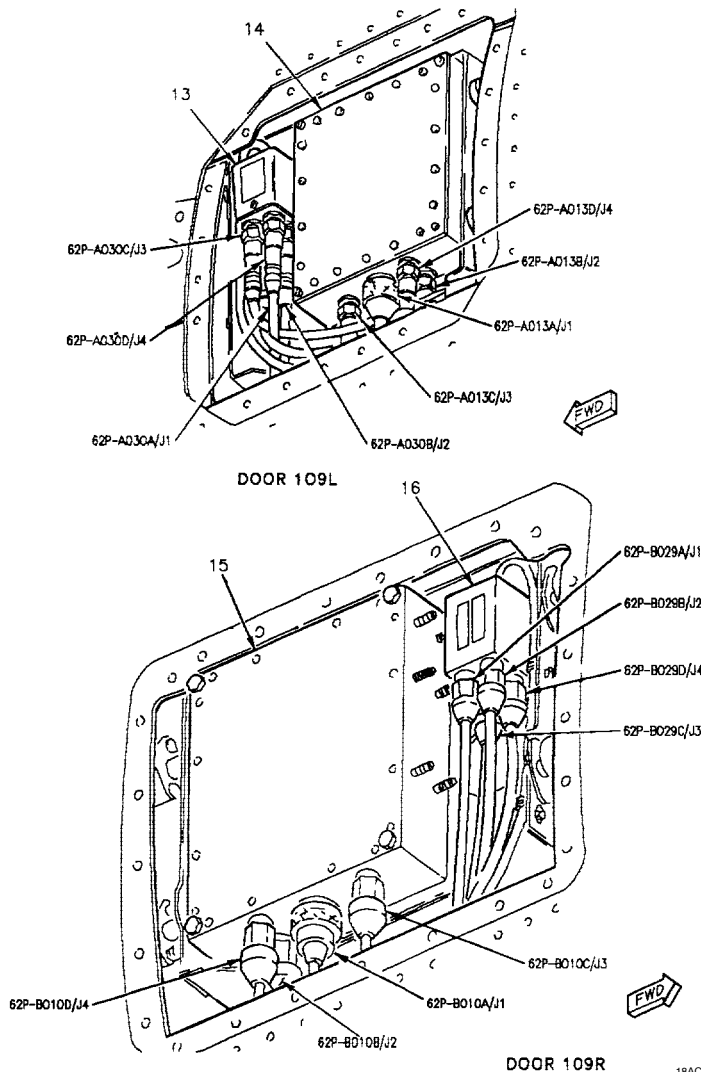
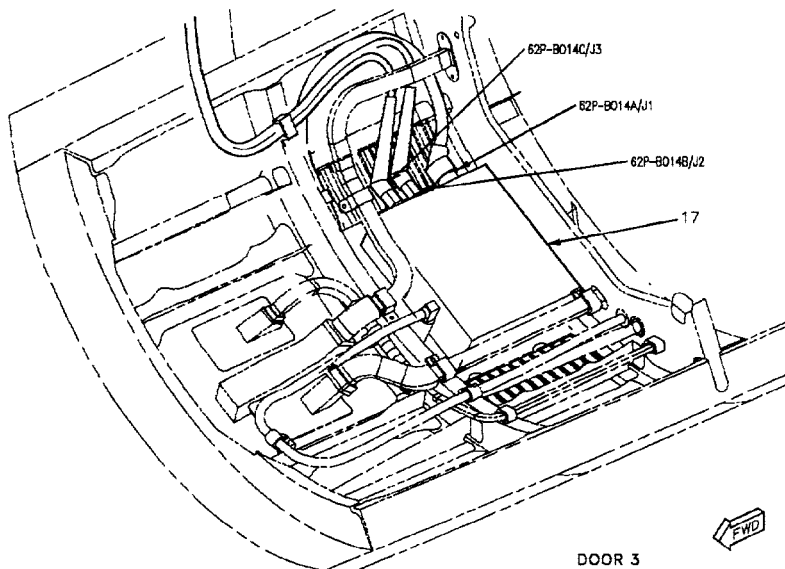
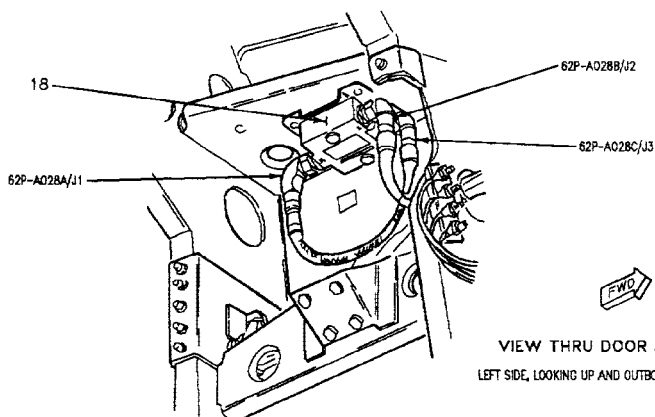


Figure 1. Countermeasures Warning and Control System Locator (Sheet 5)



DOOR 3

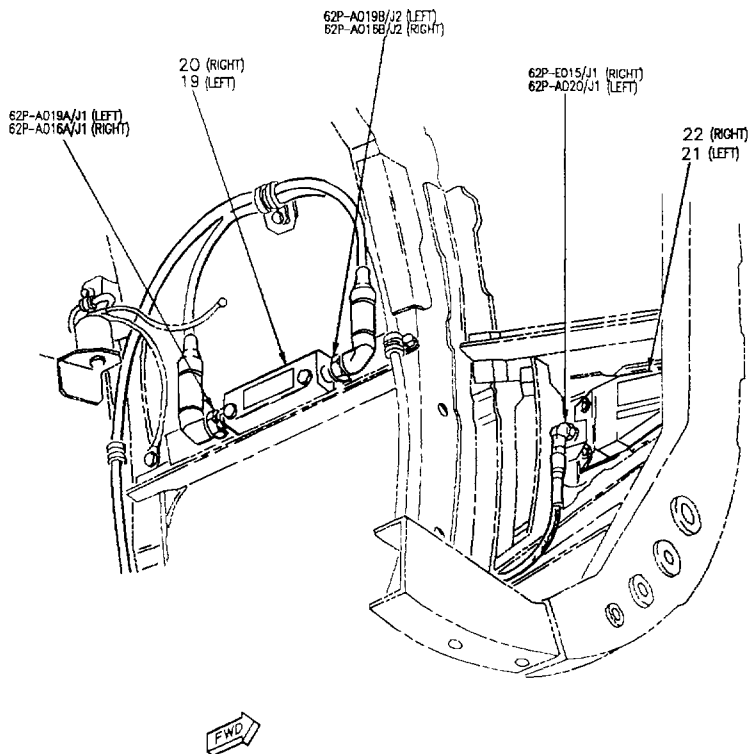
DOOR SHOWN IN OPEN POSITION



VIEW THRU DOOR 3

LEFT SIDE, LOOKING UP AND OUTBOARD

Figure 1. Countermeasures Warning and Control System Locator (Sheet 6)



VIEW THRU DOOR 3

(LEFT SIDE SHOWN, RIGHT SIDE TYPICAL)

Figure 1. Countermeasures Warning and Control System Locator (Sheet 7)

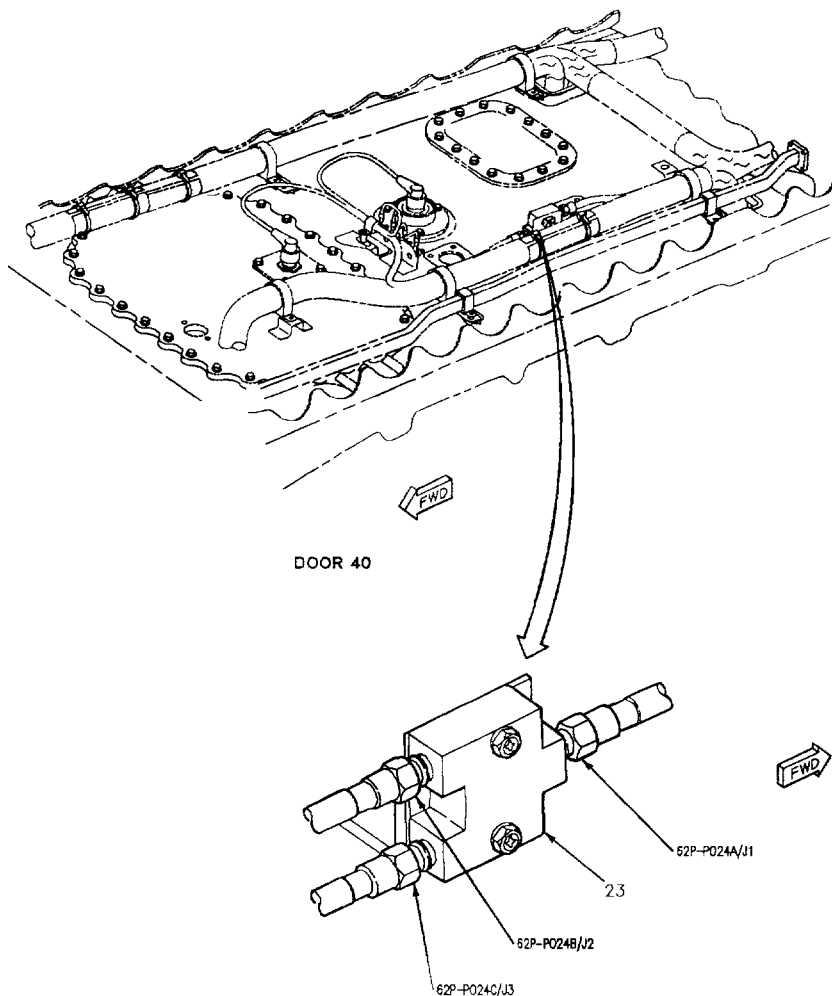


Figure 1. Countermeasures Warning and Control System Locator (Sheet 8)

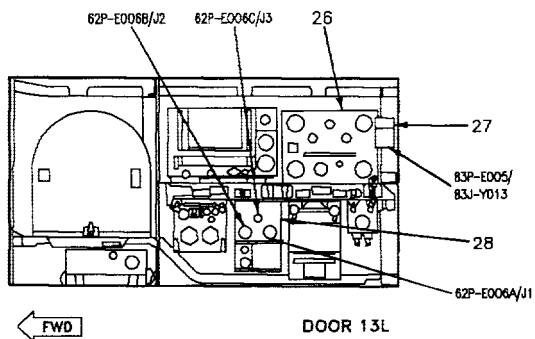
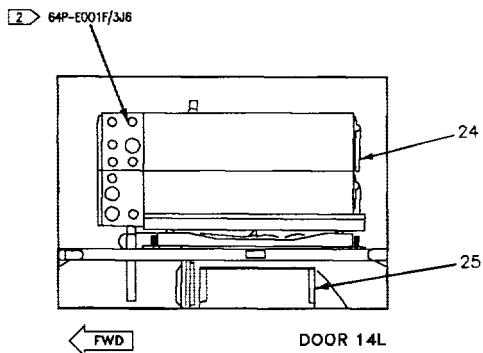


Figure 1. Countermeasures Warning and Control System Locator (Sheet 9)

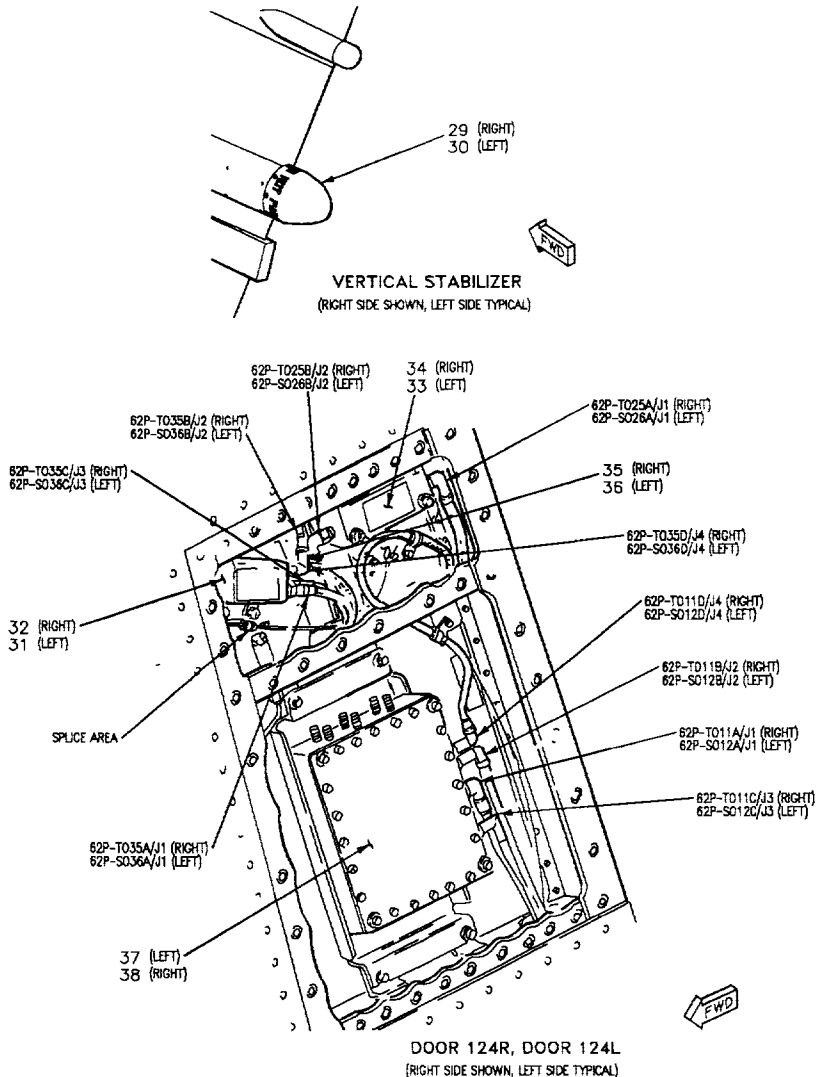
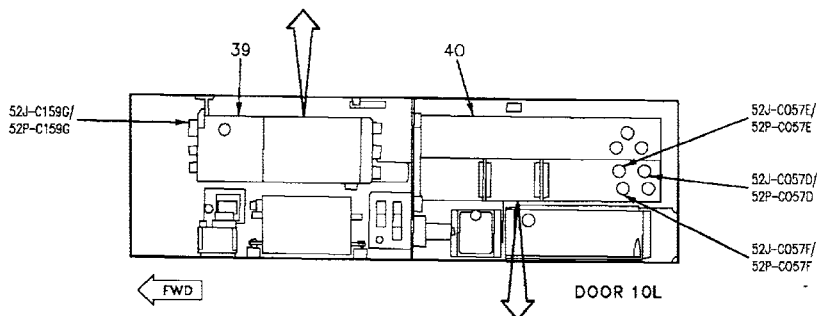


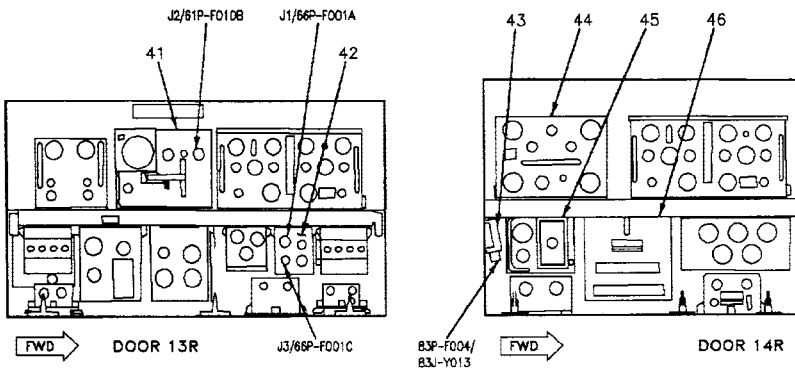
Figure 1. Countermeasures Warning and Control System Locator (Sheet 10)

52A-C159 NO. 8 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
B1	76CBC027	INTER COMM	ESS 24/28VDC
D2	85CBC004	MSDRS	MAINT 24/28VDC
D12	80CBC006	MMD	L 115VAC ØC
E12	80CBC005	MMD	L 115VAC ØB
F12	80CBC004	MMD	L 115VAC ØA

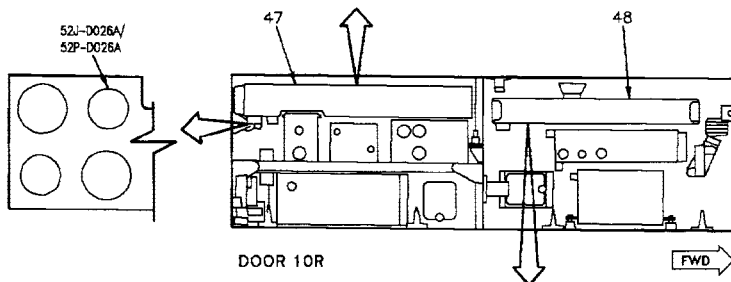


52A-C057 NO. 7 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
A11	64CBC011	ALQ-126/165	L 115VAC ØA
A20	83CBC006	MISSION COMP NO. 1	L 115VAC ØA
A27	62CBC001	ALR-67	L 115VAC ØA
A28	62CBC002	ALR-67	L 115VAC ØA
B8	62CBC005	ALR-67 IND CONT/FLTR	L 28VDC
B11	64CBC012	ALQ-126/165	L 115VAC ØB
B20	83CBC007	MISSION COMP NO. 1	L 115VAC ØB
B26	62CBC003	ALR-67	L 115VAC ØB
C11	64CBC013	ALQ-126/165	L 115VAC ØC
C20	83CBC008	MISSION COMP NO. 1	L 115VAC ØC
C26	62CBC004	ALR-67	L 115VAC ØC

Figure 1. Countermeasures Warning and Control System Locator (Sheet 11)



52A-D026 NO. 4 CIRCUIT BREAKER PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
B3	82CBDD005	CSC	R 28VDC
C2	76CBDD025	INTERCOM	R 28VDC
C10	8CBDD005	INT LITS	R 28VDC



52A-D024 NO. 2 CIRCUIT BREAKER PANEL ASSEMBLY			
ZONE	REF DES	NOMENCLATURE	BUS
A11	82CBDD002	CSC	R 115VAC ØA
A12	66CBDD002	BLANKER	R 115VAC ØA
A17	80CBDD007	MFD	R 115VAC ØA
B11	82CBDD003	CSC	R 115VAC ØB
B17	80CBDD008	MFD	R 115VAC ØB
C11	82CBDD004	CSC	R 115VAC ØC
D7	80CBDD009	MFD	R 115VAC ØC

18AC-760-50-(9-12)14-CATI

Figure 1. Countermeasures Warning and Control System Locator (Sheet 12)

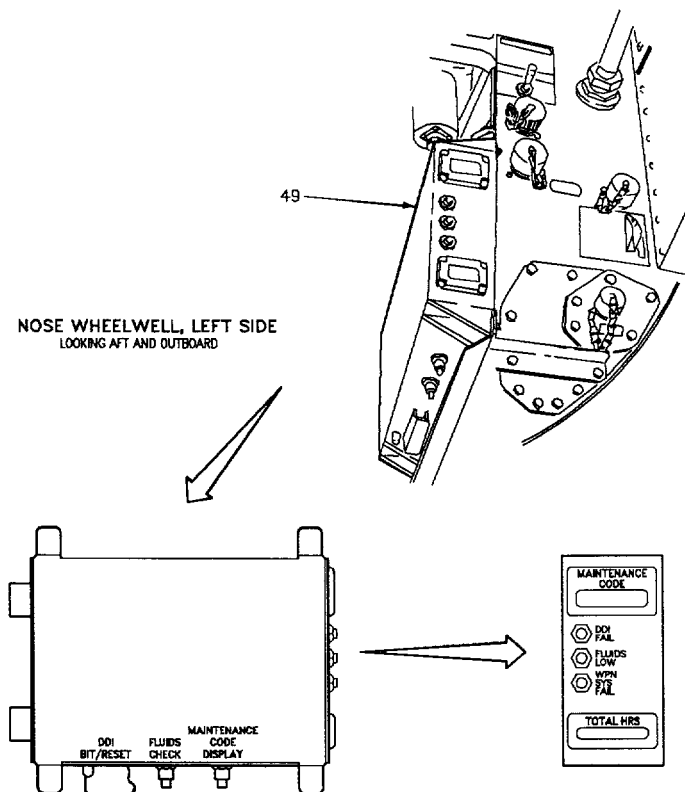


Figure 1. Countermeasures Warning and Control System Locator (Sheet 13)

NOMENCLATURE	INDEX NO.	REF DES
ADAPTER	35	62CPT035B
ADAPTER	36	62CPS036B
ARMAMENT COMPUTER CP-1342/AYQ-9(V)	45	61A-F001
COMMAND LAUNCH COMPUTER CP-1001()/AWG	47	61A-F010
CONTROL-INDICATOR C-10250/ALR-67(V)	2	62A-J007
COUNTERMEASURES COMPUTER CP-1293()/ALR/67(V)	28	62A-E006
DIGITAL DATA COMPUTER NO. 1	26	83A-E001
DIGITAL DATA COMPUTER NO. 2	44	83A-F002
DIGITAL DISPLAY INDICATOR ID-2150/ASM-612	49	85A-G003
FORWARD AZIMUTH INDICATOR IP-1276/ALR-67(V)	10	62A-J008
FORWARD RADAR RECEIVER COUPLER CU-2292/ ALR-67(V)	17	62A-A028
GND PWR CONTROL PANEL ASSEMBLY	1	1A-H004
HEAD-UP DISPLAY UNIT AN/AVQ-28	5	79A-J001
HORIZONTAL INDICATOR IP-1350/A	6	80A-J003
INTEGRATED ANTENNA AS-3190A/ALR-67(V)	18	62A-B014
INTERCOMMUNICATION AMPLIFIER-CONTROL	8	76A-H009
INTERFERENCE BLANKER MX-9965/A	48	66A-F001
INTR LT CONTROL BOX PANEL ASSEMBLY	7	8A-J002
LEFT DIGITAL DISPLAY INDICATOR IP-1317()	3	80A-H001
LEFT FORWARD ANTENNA-RADOME AS-3360/ALR	22	62E-A020
LEFT FORWARD BAND PASS FILTER F-1539/ALR-67(V)	19	62FLA019
LEFT FORWARD RADAR RECEIVER R-2148A/ALR-67(V)	14	62A-A013
LEFT FORWARD RADIO FREQUENCY TRANSMISSION SWITCH SA-2362/ALR-67(V)	13	62S-A030
LEFT MUX BUS IMPEDANCE MATCHING NETWORK	27	83A-Y013
LEFT REAR ANTENNA-RADOME AS-3306/ALR	30	62E-S018
LEFT REAR BAND PASS FILTER F-1539/ALR/67(V)	33	62FLS026
LEFT REAR RADAR RECEIVER R-2148A/ALR-67(V)	37	62A-S012
LEFT REAR RADIO FREQUENCY TRANSMISSION SWITCH SA-2362/ALR-67(V)	31	62S-S036
NO. 2 CIRCUIT BREAKER PANEL ASSEMBLY	42	52A-D024
NO. 4 CIRCUIT BREAKER PANEL ASSEMBLY	41	52A-D026

Figure 1. Countermeasures Warning and Control System Locator (Sheet 14)

NOMENCLATURE		INDEX NO.	REF DES
	NO. 7 CIRCUIT BREAKER/RELAY PANEL ASSEMBLY	40	52A-C057
	NO. 8 CIRCUIT BREAKER PANEL ASSEMBLY	39	52A-C159
	RADAR RECEIVER R-2055A/ALR-67(V)	25	62A-E009
4	REAR AZIMUTH INDICATOR IP-1276/ALR-67(V)	11	62A-L027
	REAR RADAR RECEIVER COUPLER CU-2292/ALR-67(V)	23	62A-P024
	RECEIVER-TRANSMITTER RT-1079()/ALQ-126	24	64A-E001
	RH ADVISORY AND THREAT WARNING INDICATOR PANEL	9	52A-J074
	RIGHT DIGITAL DISPLAY INDICATOR IP-1317()	4	80A-J002
	RIGHT FORWARD ANTENNA-RADOME AS-3359/ALR	21	62E-B015
	RIGHT FORWARD BAND PASS FILTER F-1539/ALR-67(V)	20	62FLB016
	RIGHT FORWARD RADAR RECEIVER R-2148A/ALR-67(V)	15	62A-B010
	RIGHT FORWARD RADIO FREQUENCY TRANSMISSION SWITCH SA-2362/ALR-67(V)	16	62S-B029
	RIGHT MUX BUS IMPEDANCE MATCHING NETWORK	46	83A-Y013
	RIGHT REAR ANTENNA-RADOME AS-3306/ALR	29	62E-T017
	RIGHT REAR BAND PASS FILTER F-1529/ALR-67(V)	34	62FLT025
	RIGHT REAR RADAR RECEIVER R-2148A/ALR-67(V)	38	62A-T011
	RIGHT REAR RADIO FREQUENCY TRANSMISSION SWITCH SA-2362/ALR-67	32	62S-T035
	SIGNAL DATA RECORDER RO-508/ASM-612	43	85A-F001
	VOLUME CONTROL PANEL ASSEMBLY	12	76A-K032

LEGEND

1. AIRCRAFT CONNECTOR LOCATIONS ARE SHOWN IN A1-F18A()-WDM-000.

2 USED ON RECEIVER-TRANSMITTER RT-1079B/ALQ-126 ONLY.

3 F/A-18A.

4 F/A-18B.

Figure 1. Countermeasures Warning and Control System Locator (Sheet 15)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATIC

SCHEMATIC - INTERCONNECT

COUNTERMEASURES WARNING AND CONTROL SYSTEM

EFFECTIVITY: 161702 AND UP

This WP supersedes WP010 00, dated 1 December 1993

Reference Material

None

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Countermeasures Warning and Control System Interconnect Schematic, Figure 1 2

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC-50	16 Oct 84	Tactical Electronic Warfare Systems, ALR-67 Countermeasures, Modification of (ECP MDA-F/A-18-003R1 C1/C2/C3)	15 Jun 85	-
F/A-18 AFC-158	Oct 91	Correction of AN/ALR-67 and AN/ALR-126B Wiring (ECP RAMEC NO-RIS-22-90)	1 Sept 92	-

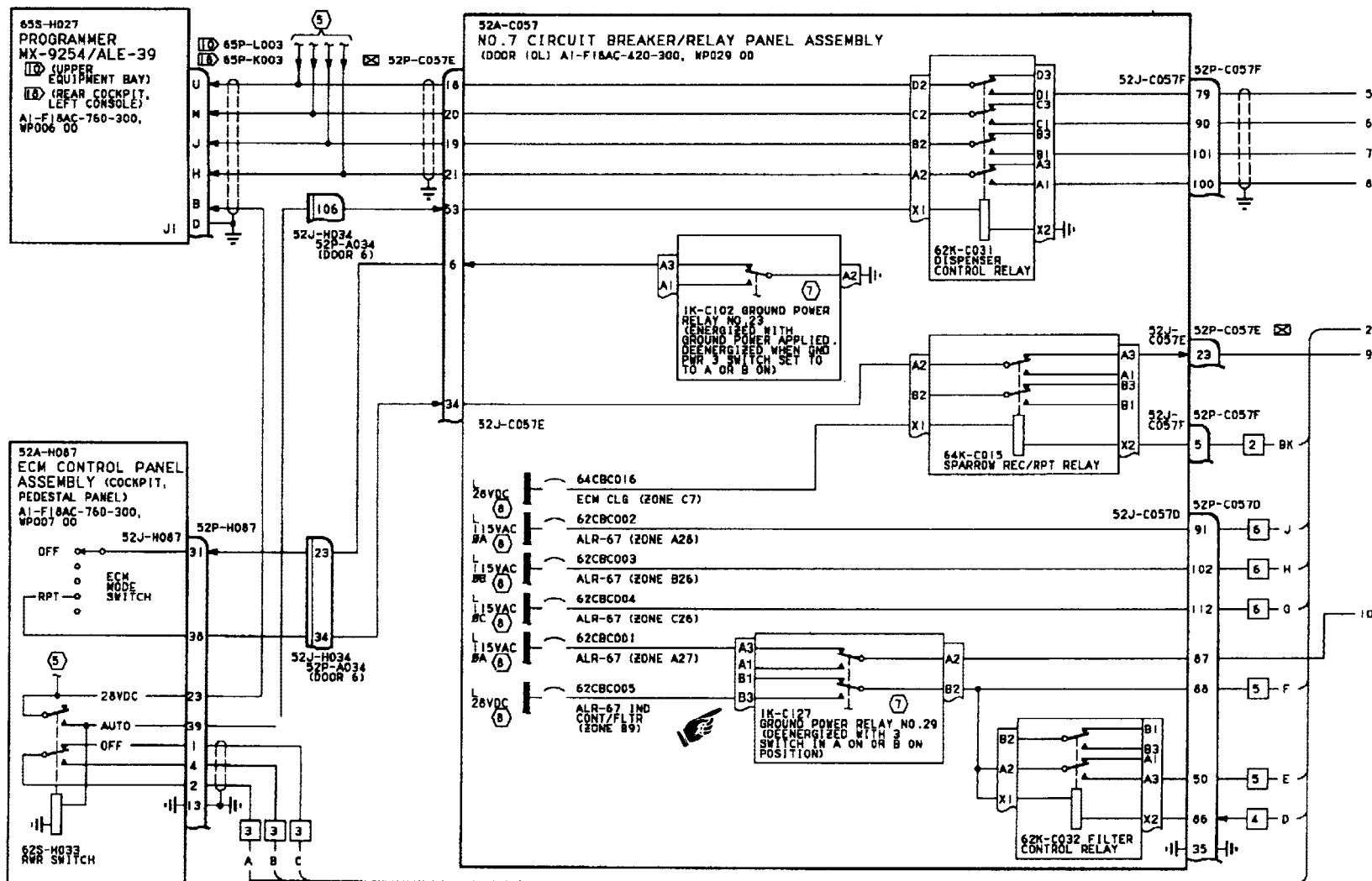


Figure 1.

Figure 1. Countermeasures Warning and Control System Interconnect Schematic (Sheet 1)

Figure 1.

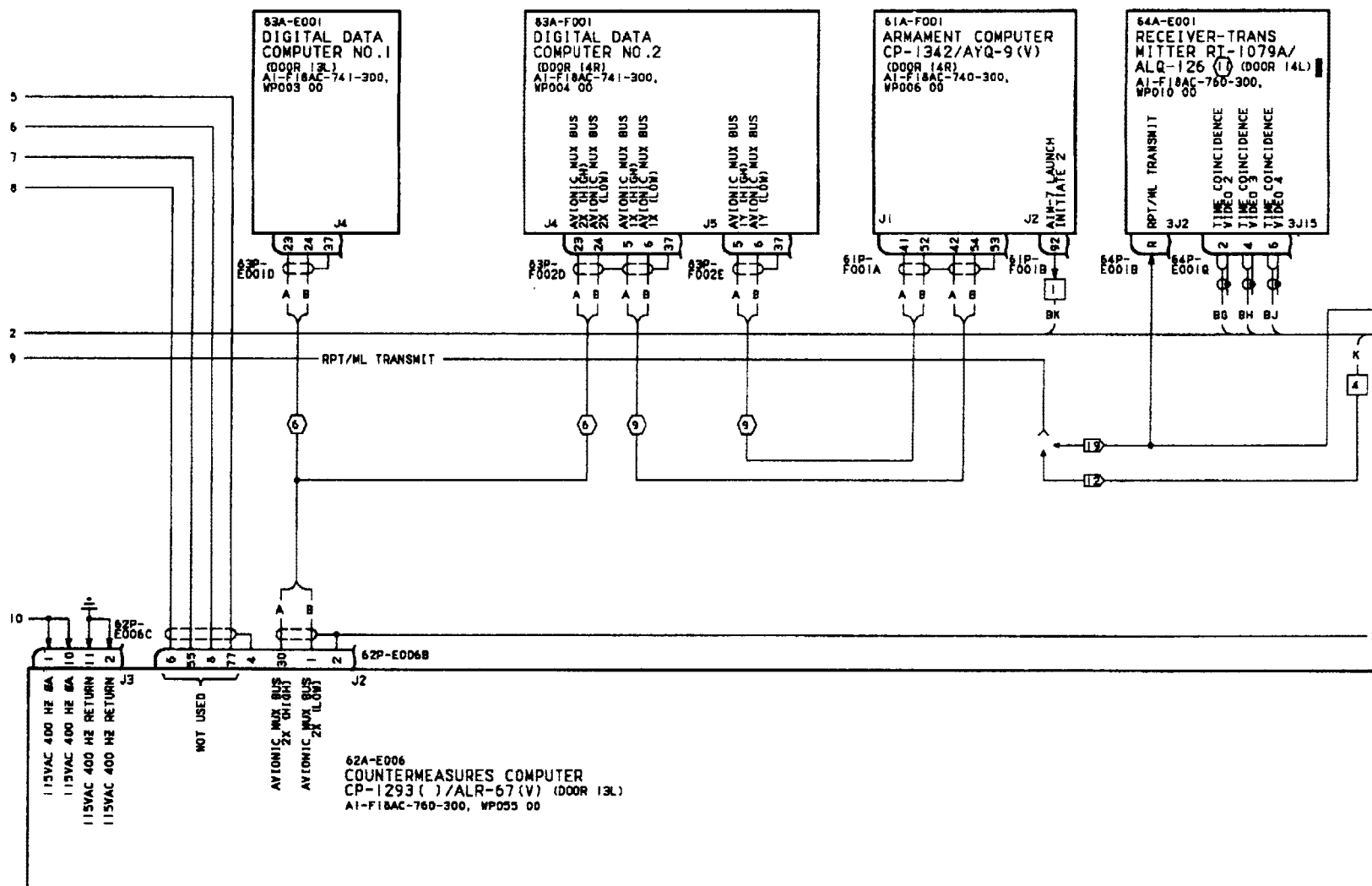


Figure 1.

Figure 1. Countermeasures Warning and Control System Interconnect Schematic (Sheet 2)

Figure 1.

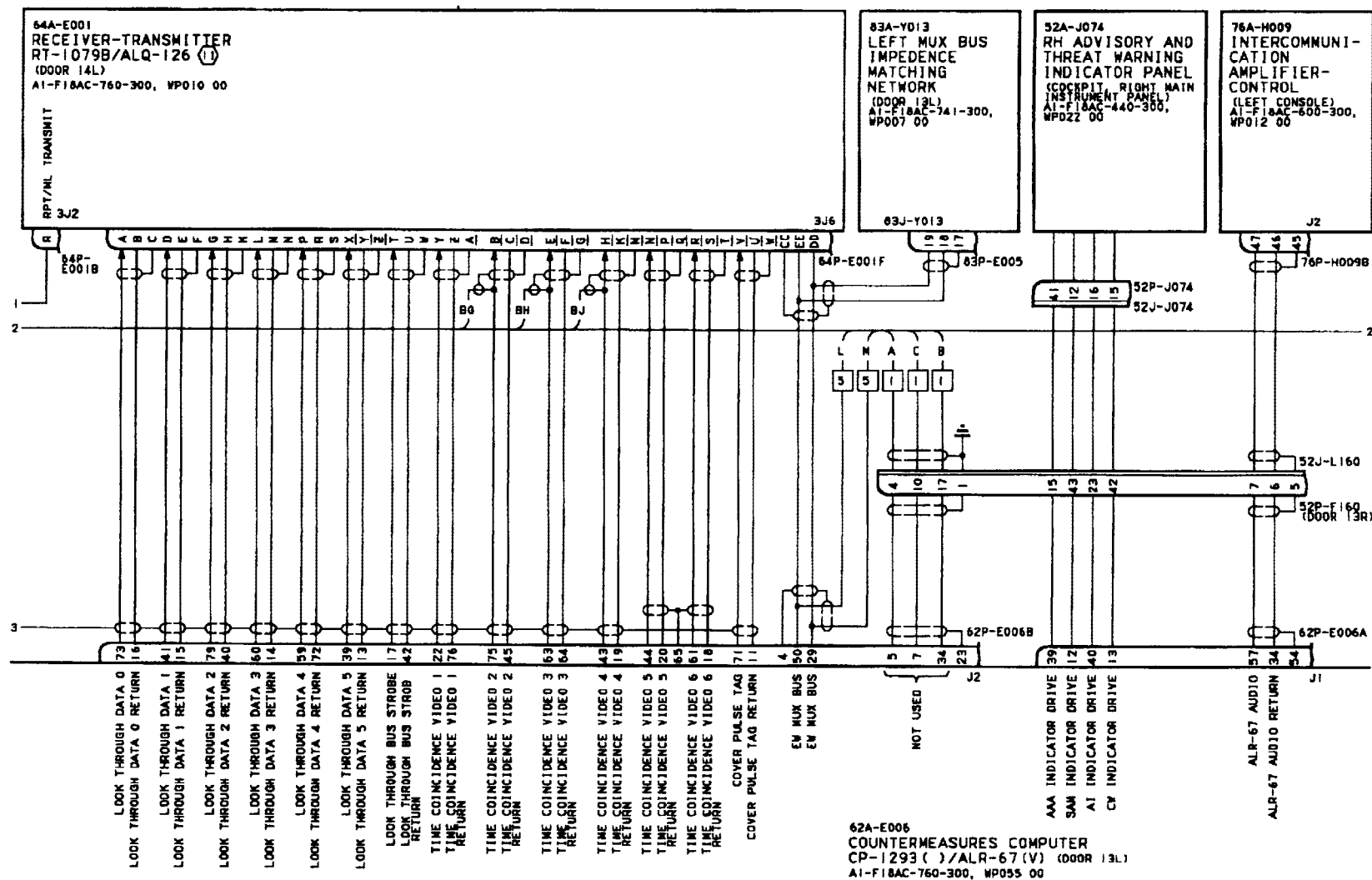


Figure 1

Figure 1. Countermeasures Warning and Control System Interconnect Schematic (Sheet 3)

Figure 1.

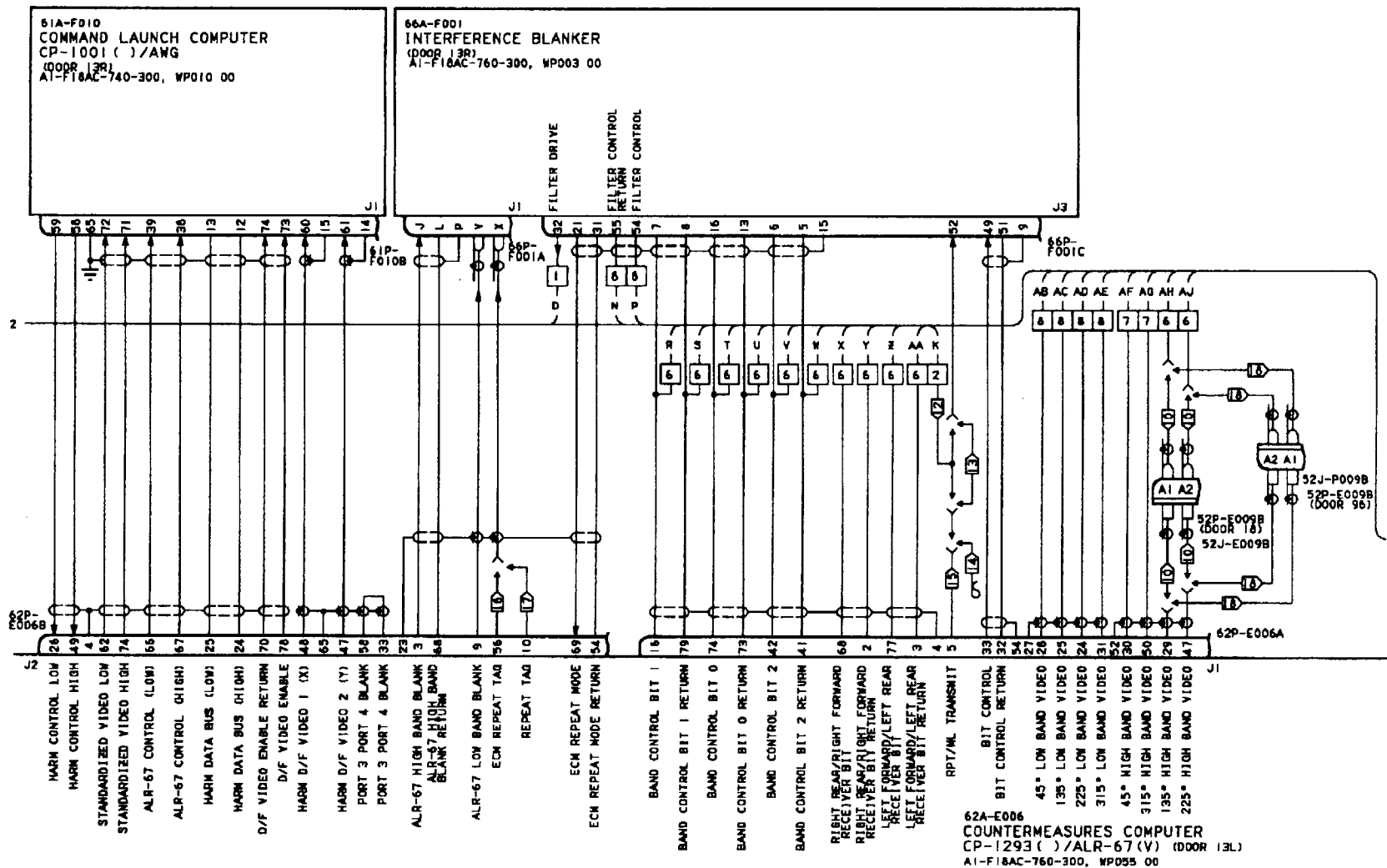


Figure 1.

Figure 1. Countermeasures Warning and Control System Interconnect Schematic (Sheet 4)

Figure 1.

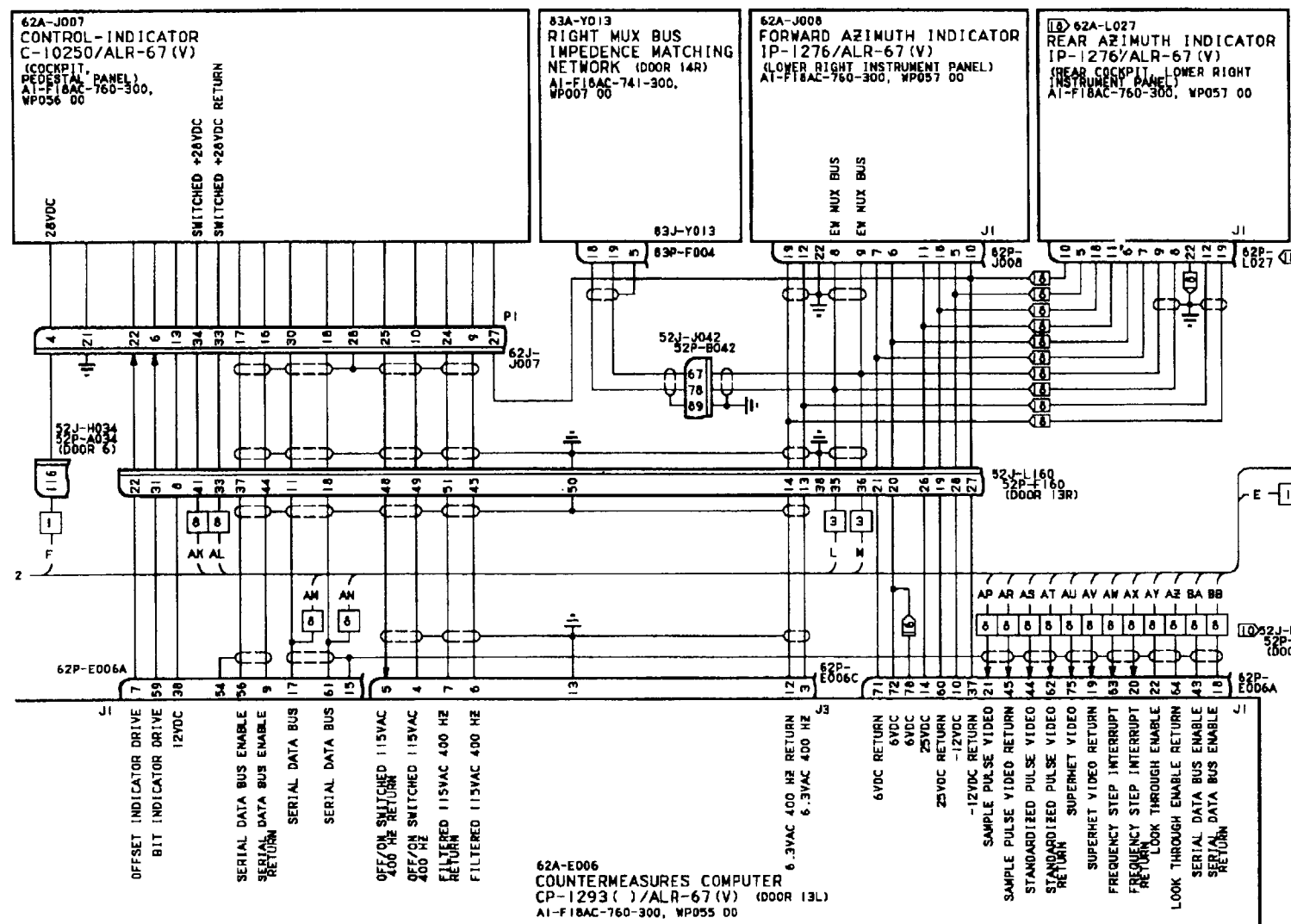


Figure 1.

Figure 1. Countermeasures Warning and Control System Interconnect Schematic (Sheet 5)

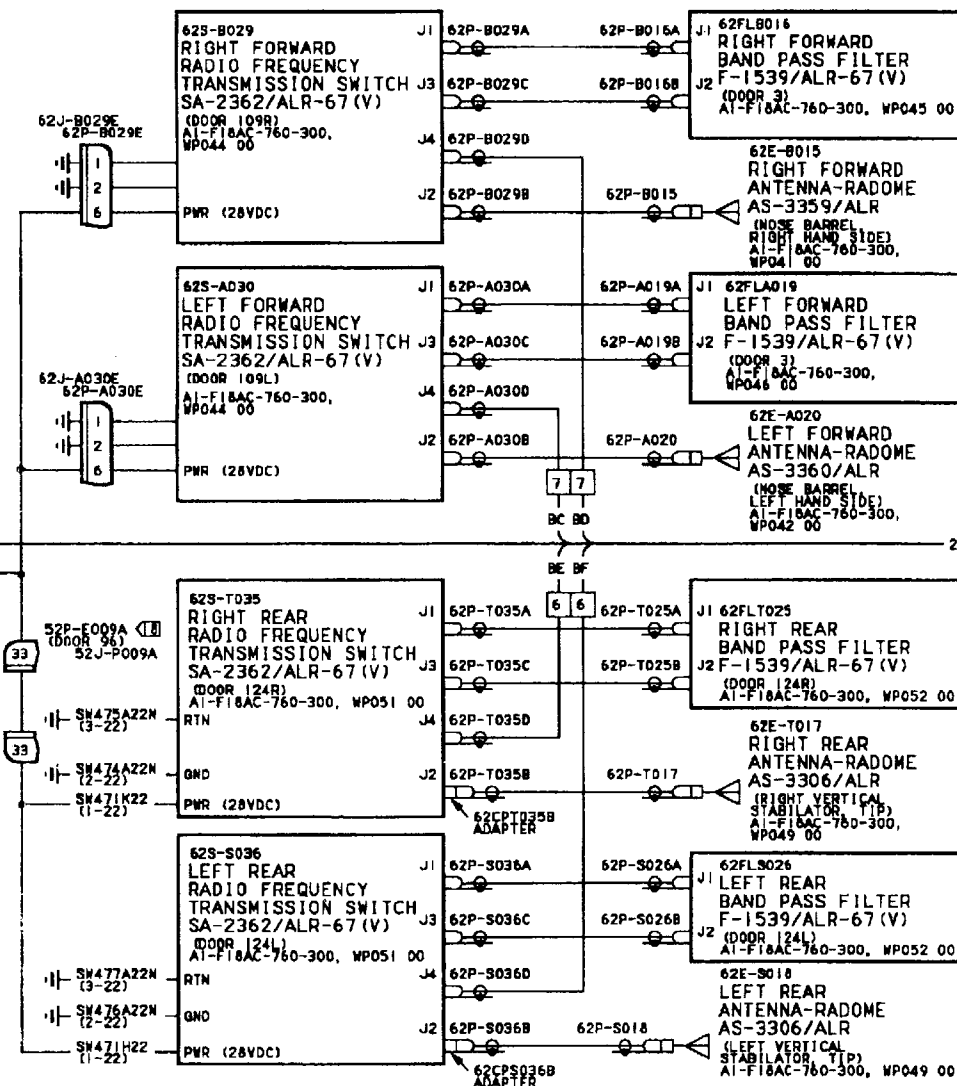


Figure 1.

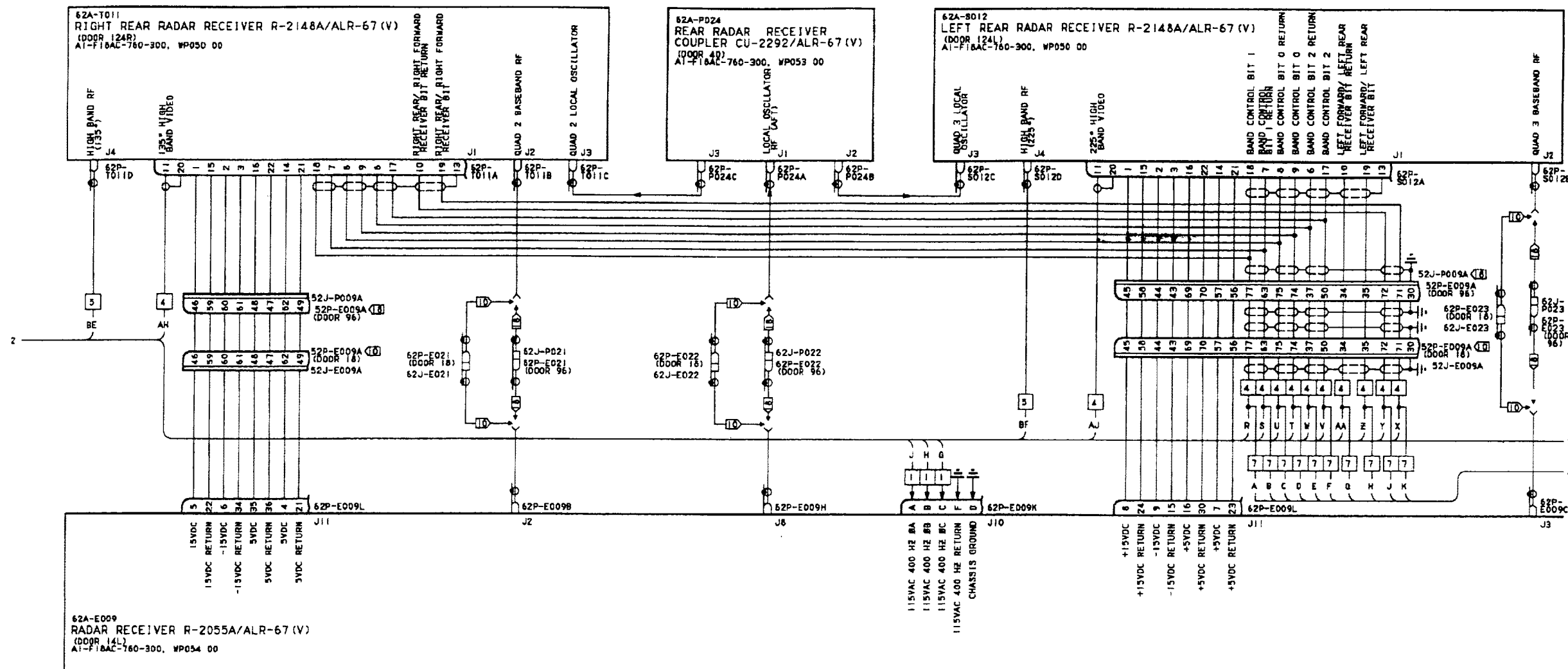


Figure 1.

Figure 1. Countermeasures Warning and Control System Interconnect Schematic (Sheet 6)

Figure 1.

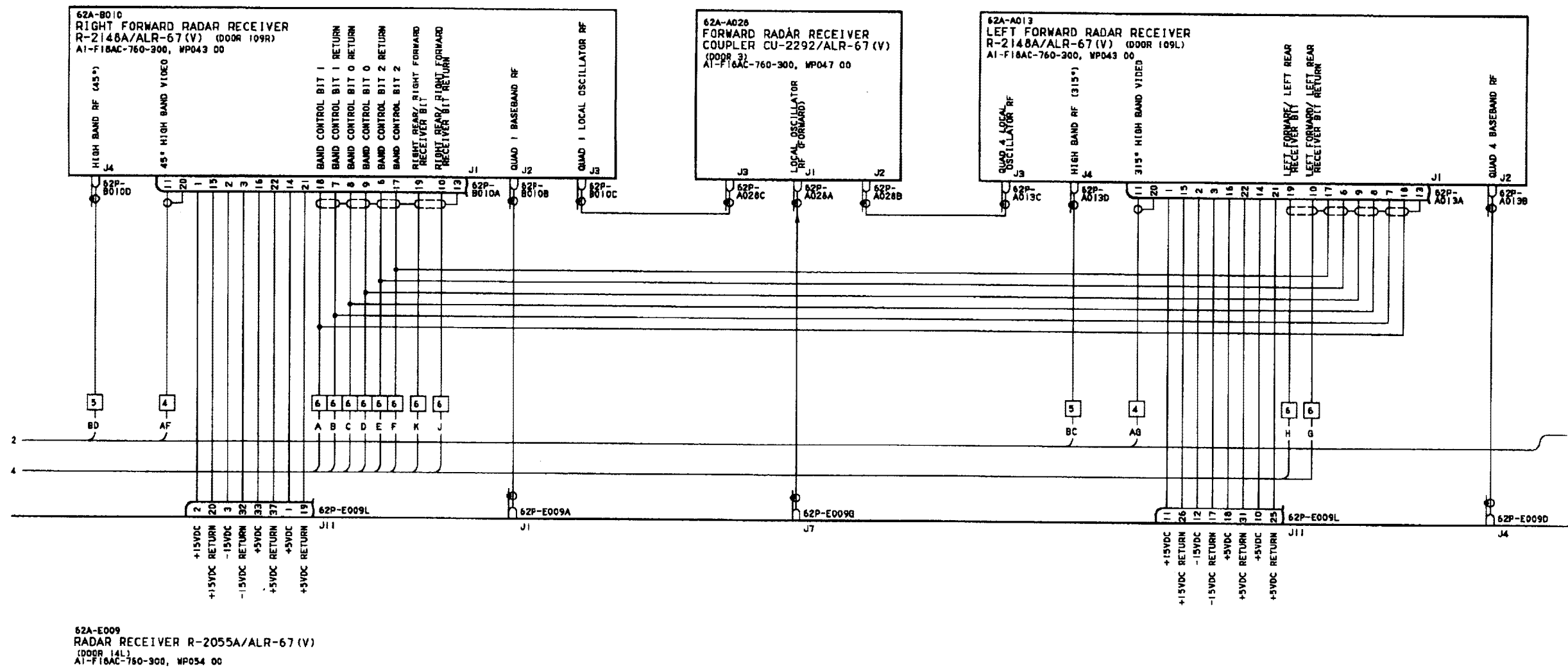


Figure 1.

Figure 1. Countermeasures Warning and Control System Interconnect Schematic (Sheet 7)

Figure 1.

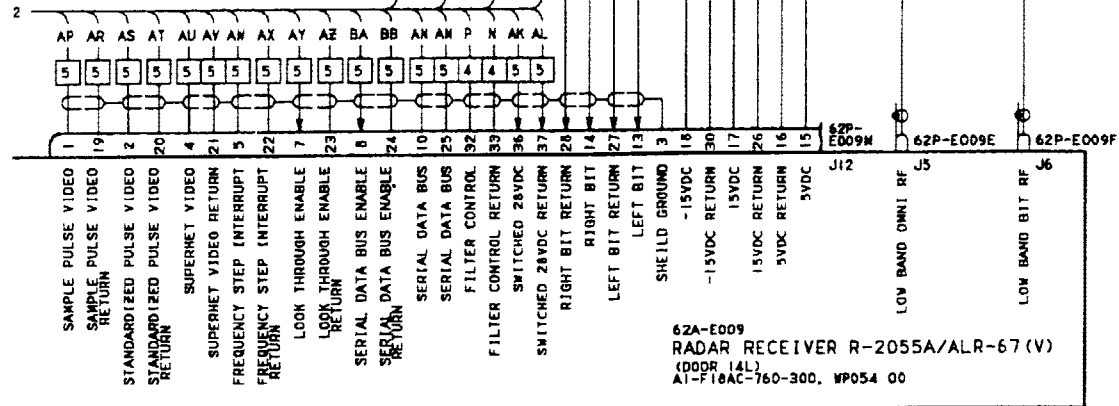


Figure 1. Countermeasures Warning and Control System Interconnect Schematic (Sheet 8)

LEGEND

1. NONSTANDARD SYMBOLS
- ⊕ IDENTIFIES RELAY USED TO SWITCH LOW LEVEL CURRENT.
SEE NOTE 2.
- ☒ IDENTIFIES 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS
OF THE CONNECTOR. SEE NOTE 2.
-
2. CONTINUITY TESTS:
- A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDM-000.
- B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
- C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RX1 SCALE.
- D. WHEN TESTING CONTINUITY, TEST FOR:
- (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONNECTORS.
 - (4) SHIELD CONTINUITY.
- E. WHEN ELECTRICAL POWER IS OFF 24VDC BATTERY VOLTAGE EXISTS ON SOME PINS ON CONNECTORS (IDENTIFIED BY ☒). MAKE SURE WIRE METER LEADS/NUMBER WIRES ARE INSTALLED ON CORRECT PINS WHEN TESTING FOR CONTINUITY.
3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTER.
4. NONSTANDARD ABBREVIATIONS
- BIT - BUILT-IN TEST
- HARM - HIGH SPEED ANTI-RADIATION MISSILE

- ⑤ COUNTERMEASURES DISPENSING SYSTEM FUNCTIONAL SCHEMATIC, WP006 00.
- ⑥ AUDIOIC MUX CHANNEL 2 SCHEMATIC, AI-F18AC-741-500, WP005 00.
- ⑦ GROUND POWER SWITCHING SCHEMATIC, AI-F18AC-420-500, WP005 00.
- ⑧ POWER DISTRIBUTION SCHEMATIC AI-F18AC-420-500, WP005 00.
- ⑨ AUDIOIC MUX CHANNEL 1 SCHEMATIC, AI-F18AC-741-500, WP004 00.
- ⑩ F/A-18A.
- ⑪ RECEIVER-TRANSMITTER RT-1079A/ALQ-126 AND RT-1079B/ALQ-126 ARE ALTERNATE CONFIGURATIONS OF THE COUNTERMEASURES SET.
- ⑫ 161737 AND UP.
- ⑬ 161702 THRU 161736.
- ⑭ 162853 AND UP; ALSO 161702 THRU 163175 AFTER F/A-18A AFC 50.
- ⑮ 161702 THRU 163175 BEFORE F/A-18A AFC 50.
- ⑯ 161737 AND UP; ALSO 161702 THRU 161736 AFTER F/A-18A AFC 150.
- ⑰ 161702 THRU 161736 BEFORE F/A-18A AFC 150.
- ⑱ F/A-18B.
- ⑲ 161702 AND UP.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - POWER INTERFACE

COUNTERMEASURES WARNING AND CONTROL SYSTEM

EFFECTIVITY: 161702 AND UP

This WP supersedes WP011 00, dated 1 September 1992.

Reference Material

None

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Record of Applicable Technical Directives

None

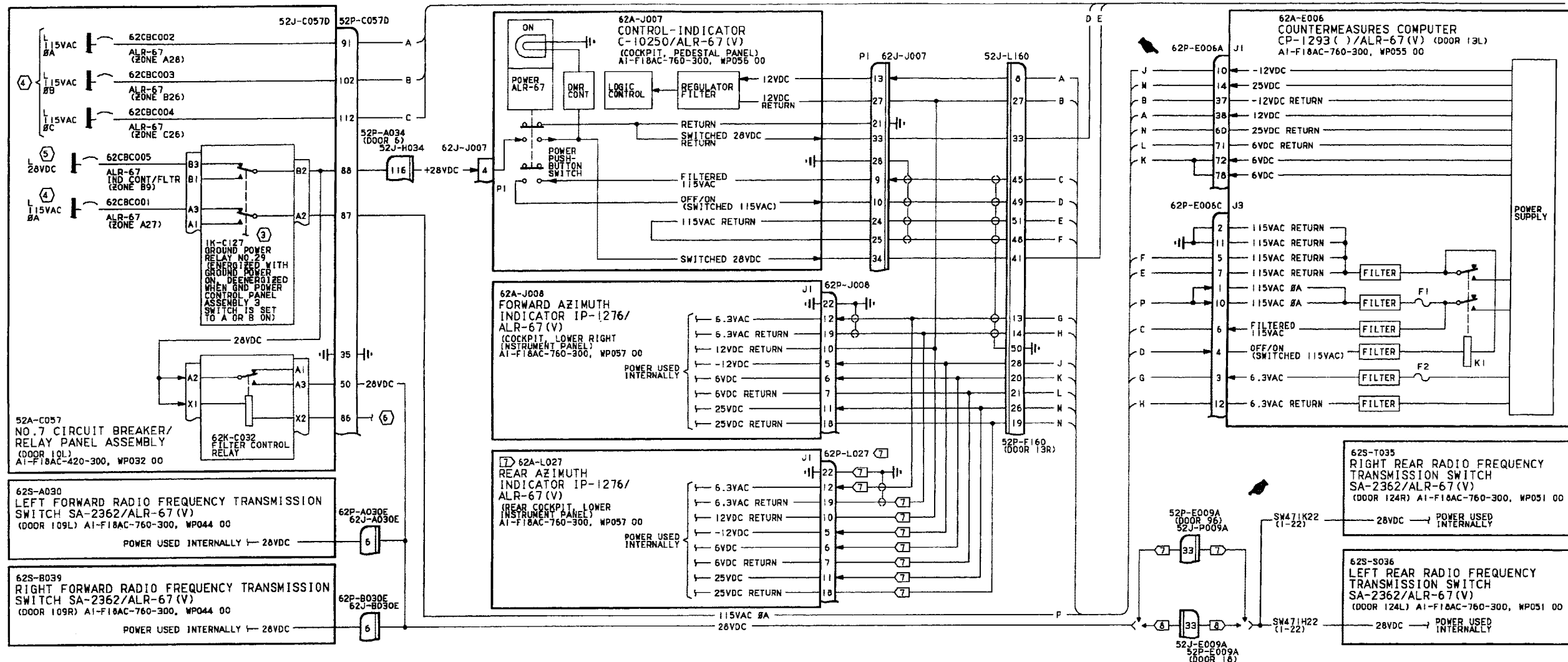
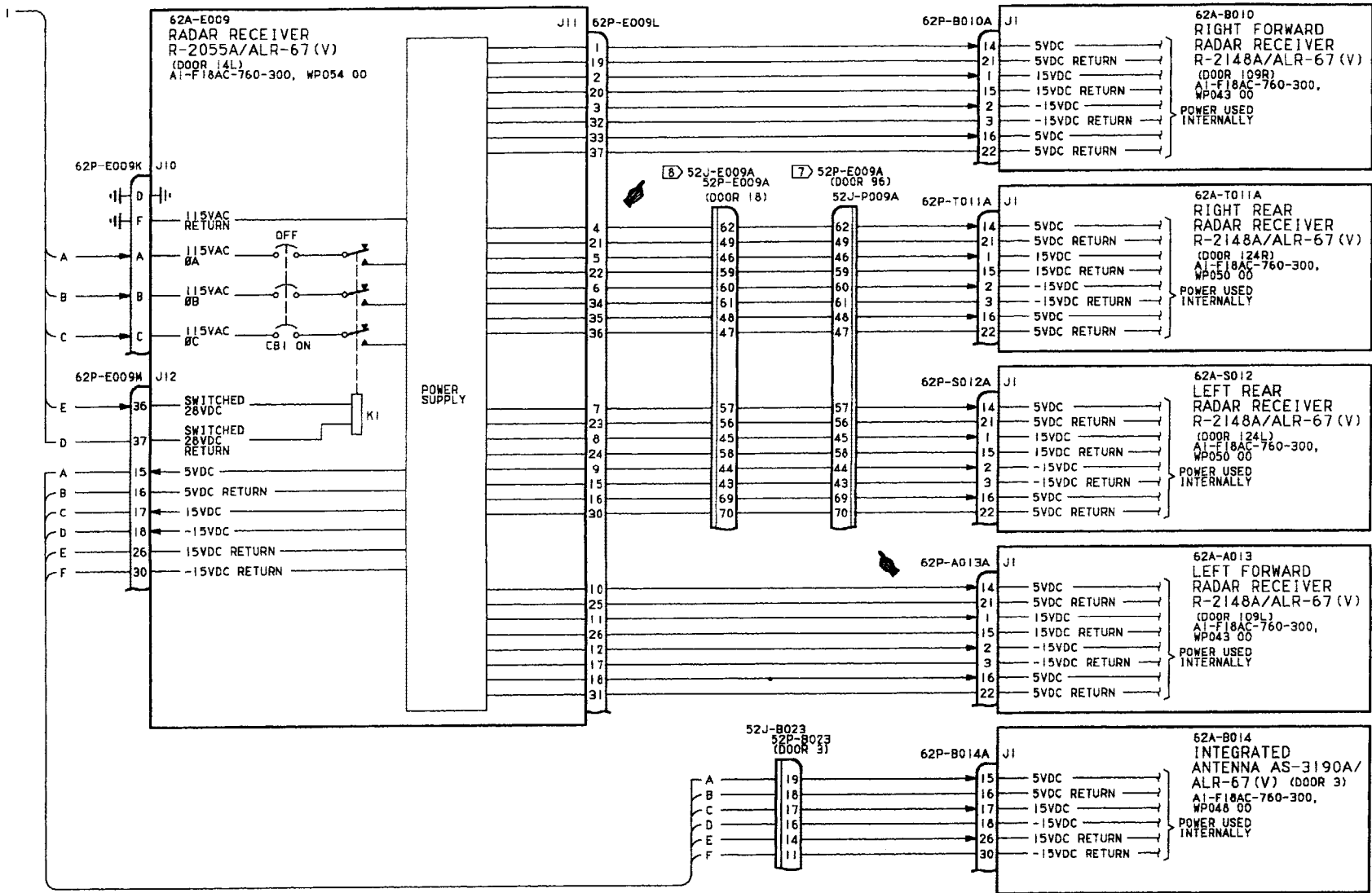


Figure 1.

Figure 1. Countermeasures Warning and Control System Power Interface Schematic (Sheet 1)

Figure 1.



LEGEND

1. NONSTANDARD SYMBOL:
⊕ IDENTIFIES RELAY USED TO SWITCH LOW LEVEL CURRENT.
SEE NOTE 2.
2. CONTINUITY TESTS:
A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS AND GROUND POINTS ARE SHOWN IN A1-F18AC-3-WRM-000.
B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON THE RXI SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RXI SCALE.
D. WHEN TESTING CONTINUITY, TEST FOR:
(1) SHORTS TO GROUND.
(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
(3) SHORTS BETWEEN SHIELD AND CONNECTORS.
(4) SHIELD CONTINUITY.
- ③ GROUND POWER SWITCHING SCHEMATIC, A1-F18AC-420-500, WP005 00.
④ AC POWER SCHEMATIC, A1-F18AC-420-500, WP003 00.
⑤ DC POWER SCHEMATIC, A1-F18AC-420-500, WP004 00.
⑥ RF DETECTION AND CONVERSION SCHEMATIC, WP012 00.
⑦ F/A-18B.
⑧ F/A-18A.

Figure 1.

Figure 1. Countermeasures Warning and Control System Power Interface Schematic (Sheet 2)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - RF DETECTION AND CONVERSION

COUNTERMEASURES WARNING AND CONTROL SYSTEM

EFFECTIVITY: 161702 AND UP

This WP supersedes WP012 00, dated 1 September 1992.

Reference Material

None

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Record of Applicable Technical Directives

None

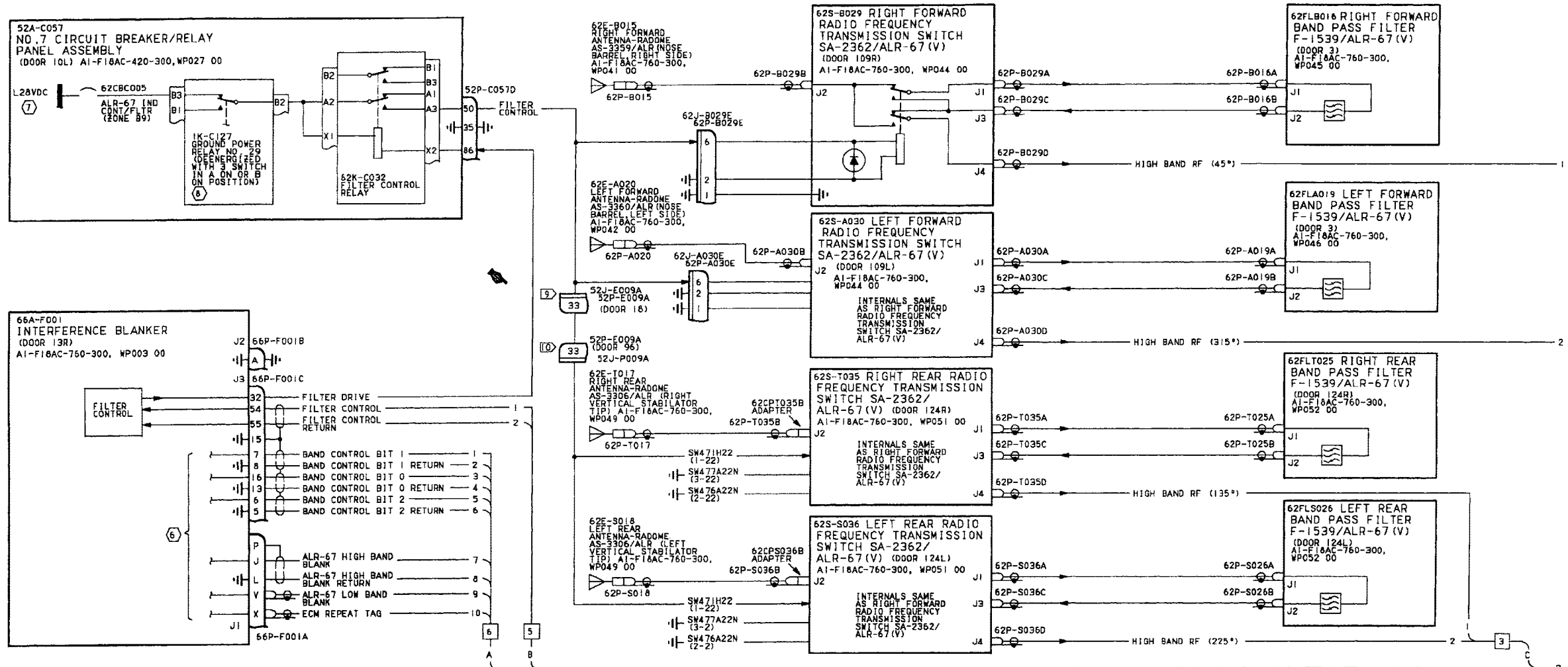


Figure 1.

Figure 1. RF Detection and Conversion Schematic (Sheet 1)

Figure 1.

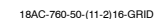


Figure 1.

Figure 1. RF Detection and Conversion Schematic (Sheet 2)

Figure 1.

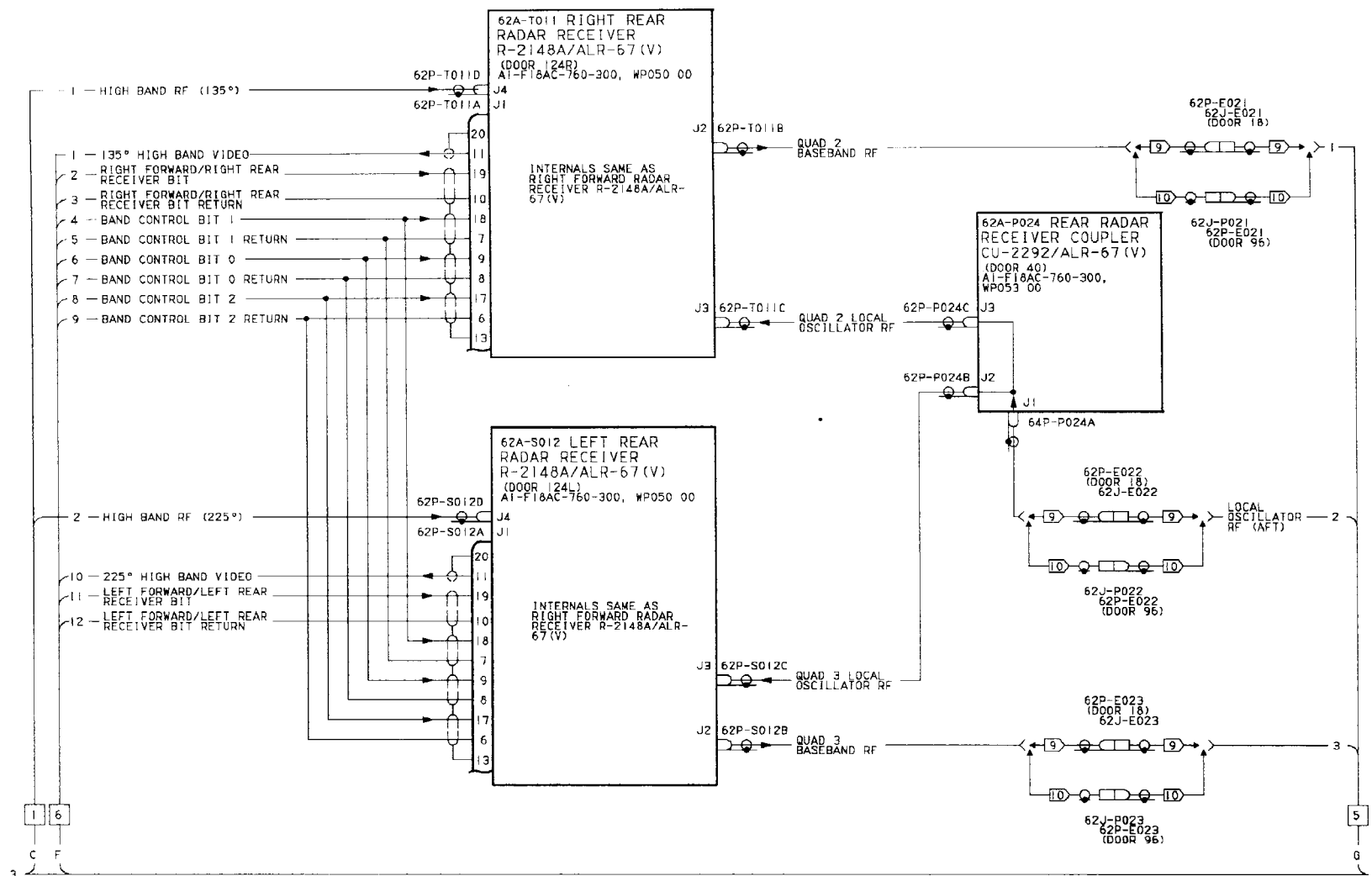


Figure 1.

Figure 1. RF Detection and Conversion Schematic (Sheet 3)

Figure 1.

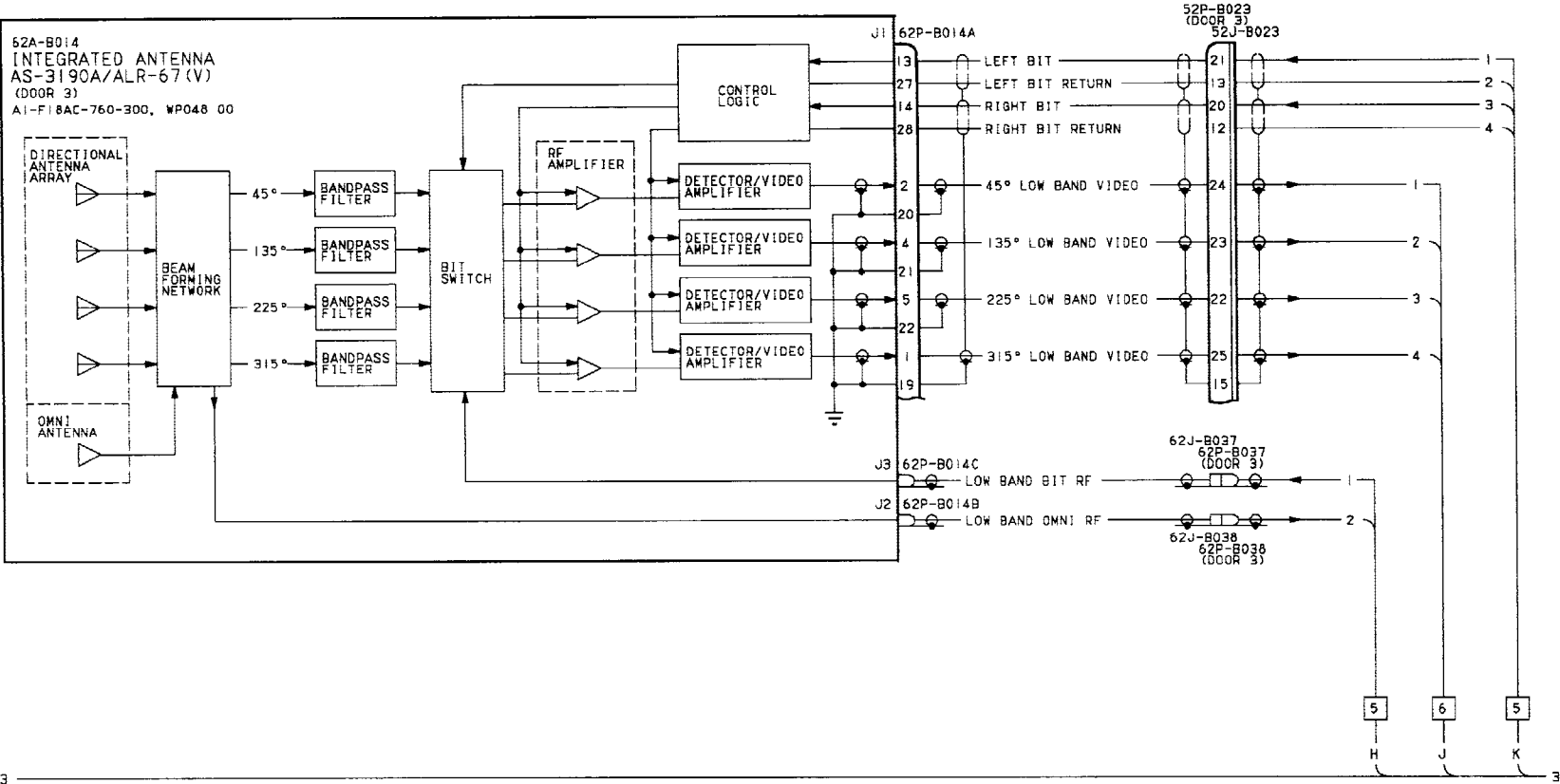


Figure 1.

Figure 1. RF Detection and Conversion Schematic (Sheet 4)

Figure 1.

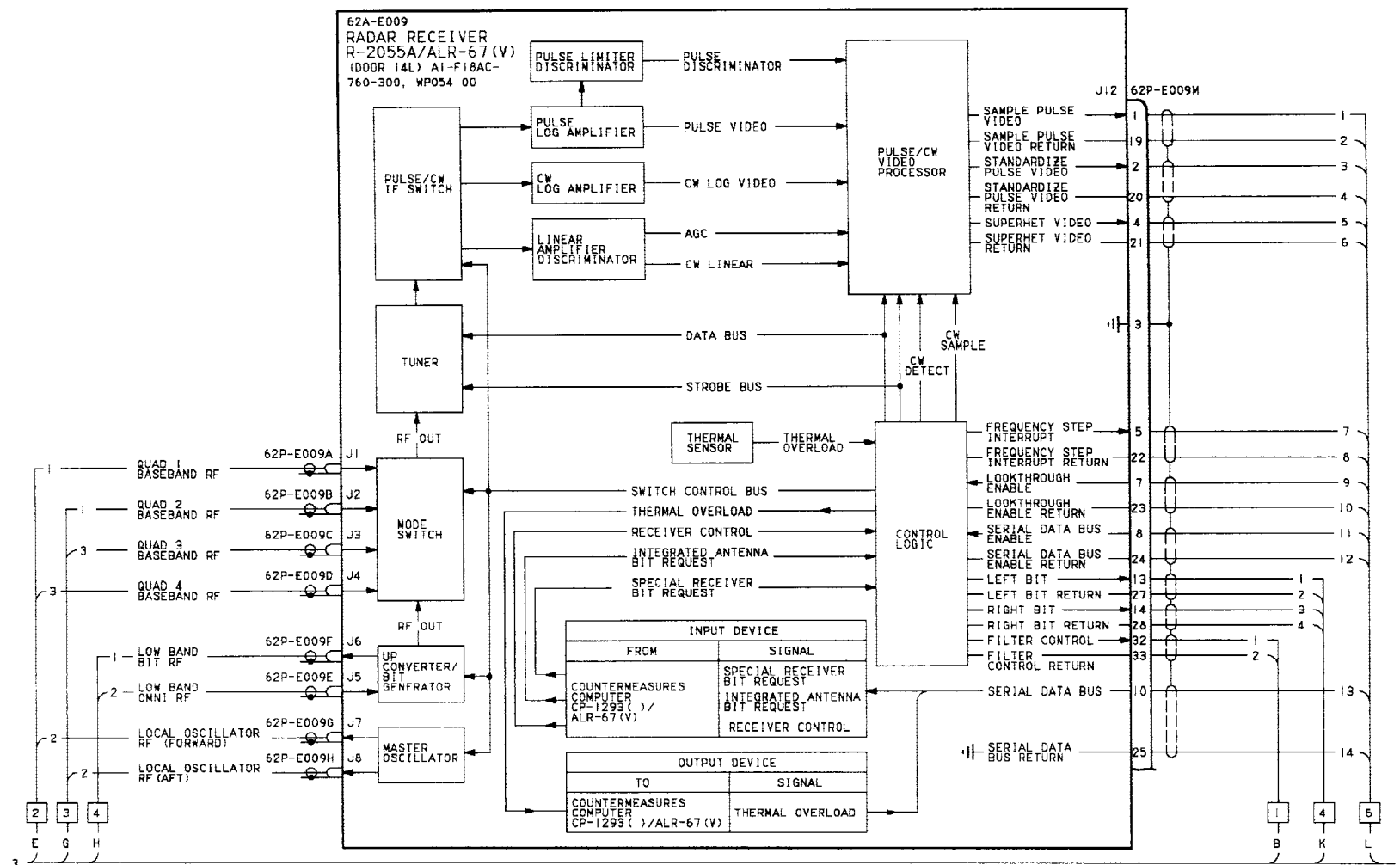


Figure 1.

Figure 1. RF Detection and Conversion Schematic (Sheet 5)

Figure 1.

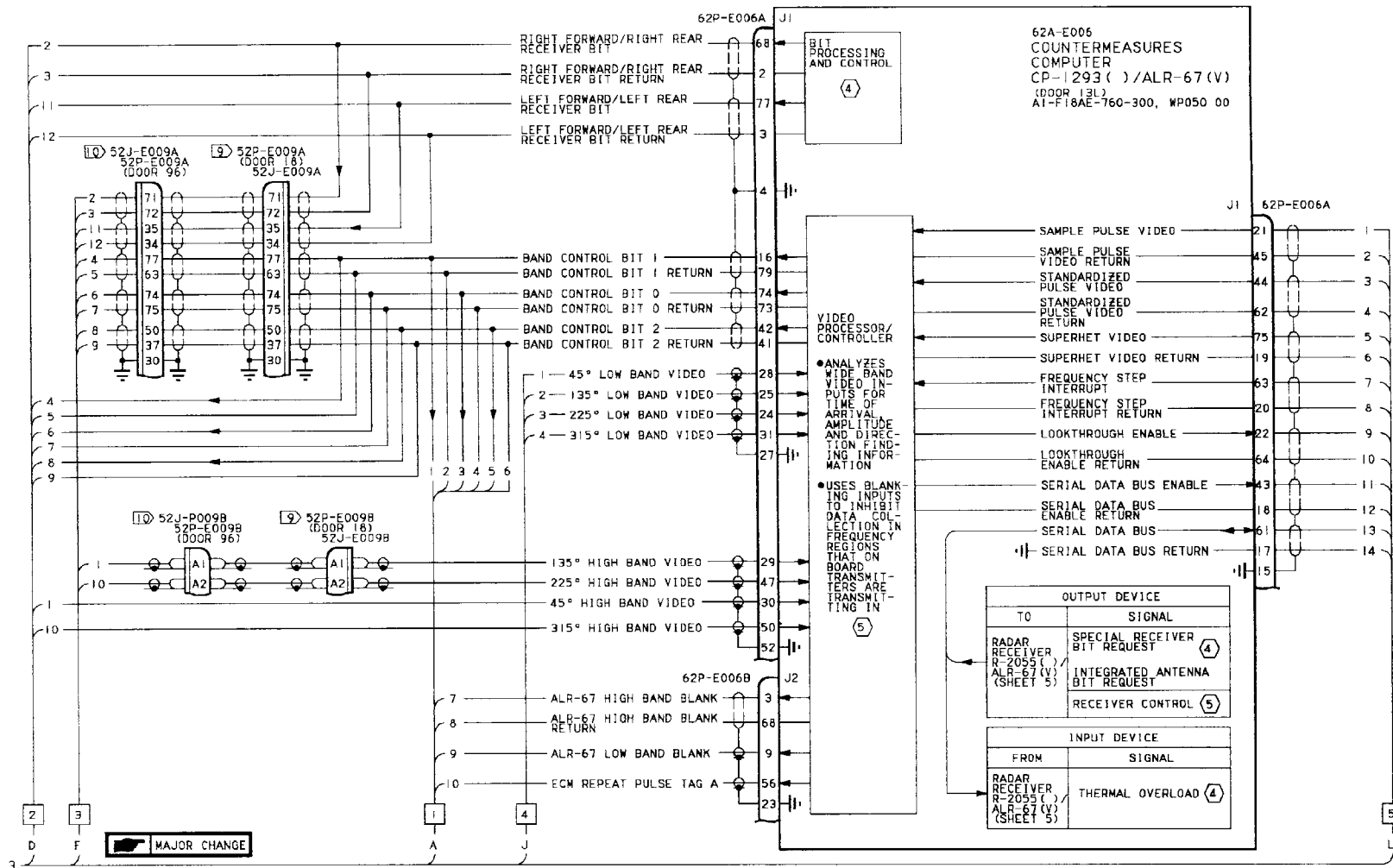


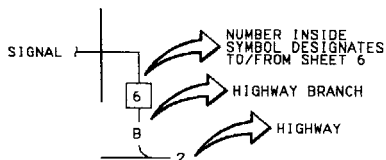
Figure 1.

Figure 1. RF Detection and Conversion Schematic (Sheet 6)

Figure 1.

LEGEND

1. NONSTANDARD SYMBOLS:



⊕ IDENTIFIES RELAY USED TO SWITCH LOW LEVEL CURRENT.
SEE NOTE 2.

2. CONTINUITY TESTS:

- A. ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN A1-F18A()-WDW-000.
- B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
- C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RXI SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RXI SCALE.
- D. WHEN TESTING CONTINUITY, TEST FOR:
 - (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.

3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTER.

- ④ CONTROLS, DISPLAYS AND AUDIO SCHEMATIC, WP015 00.
- ⑤ VIDEO PROCESSING AND CONTROL SCHEMATIC, WP014 00.
- ⑥ INTERFERENCE BLANKER FUNCTIONAL SCHEMATIC, WP004 00.
- ⑦ DC POWER SYSTEM SCHEMATIC, A1-F18AC-420-500, WP004 00.
- ⑧ GROUND POWER SWITCHING SCHEMATIC, A1-F18AC-420-500, WP005 00.
- ⑨ F/A-18A
- ⑩ F/A-18B

Figure 1. RF Detection and Conversion Schematic (Sheet 7)

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - INTEGRATION

COUNTERMEASURES WARNING AND CONTROL SYSTEM

EFFECTIVITY: 161702 AND UP

Reference Material

None

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Record of Applicable Technical Directives

None

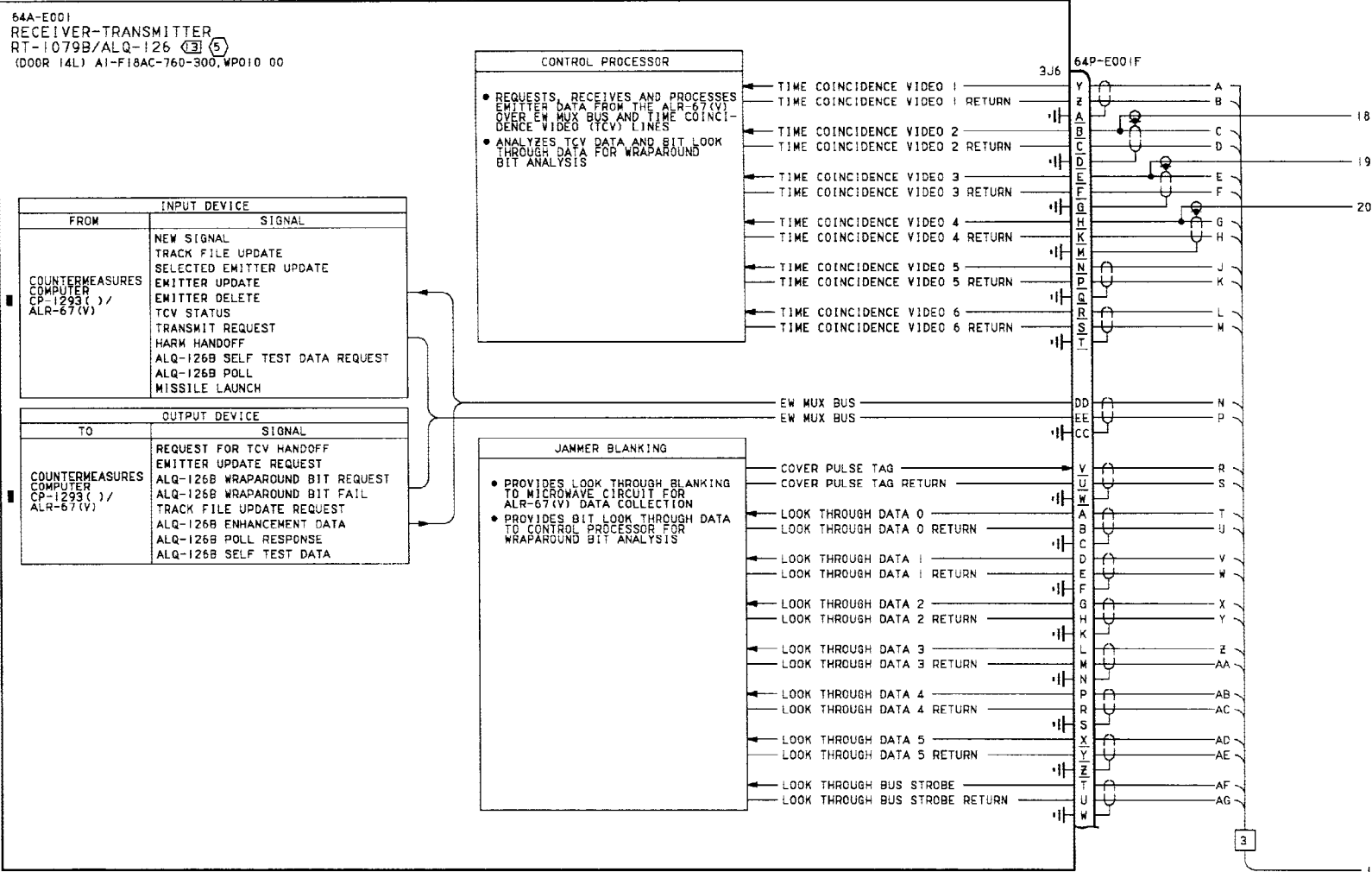


Figure 1.

Figure 1. Integration Schematic (Sheet 1)

Figure 1.

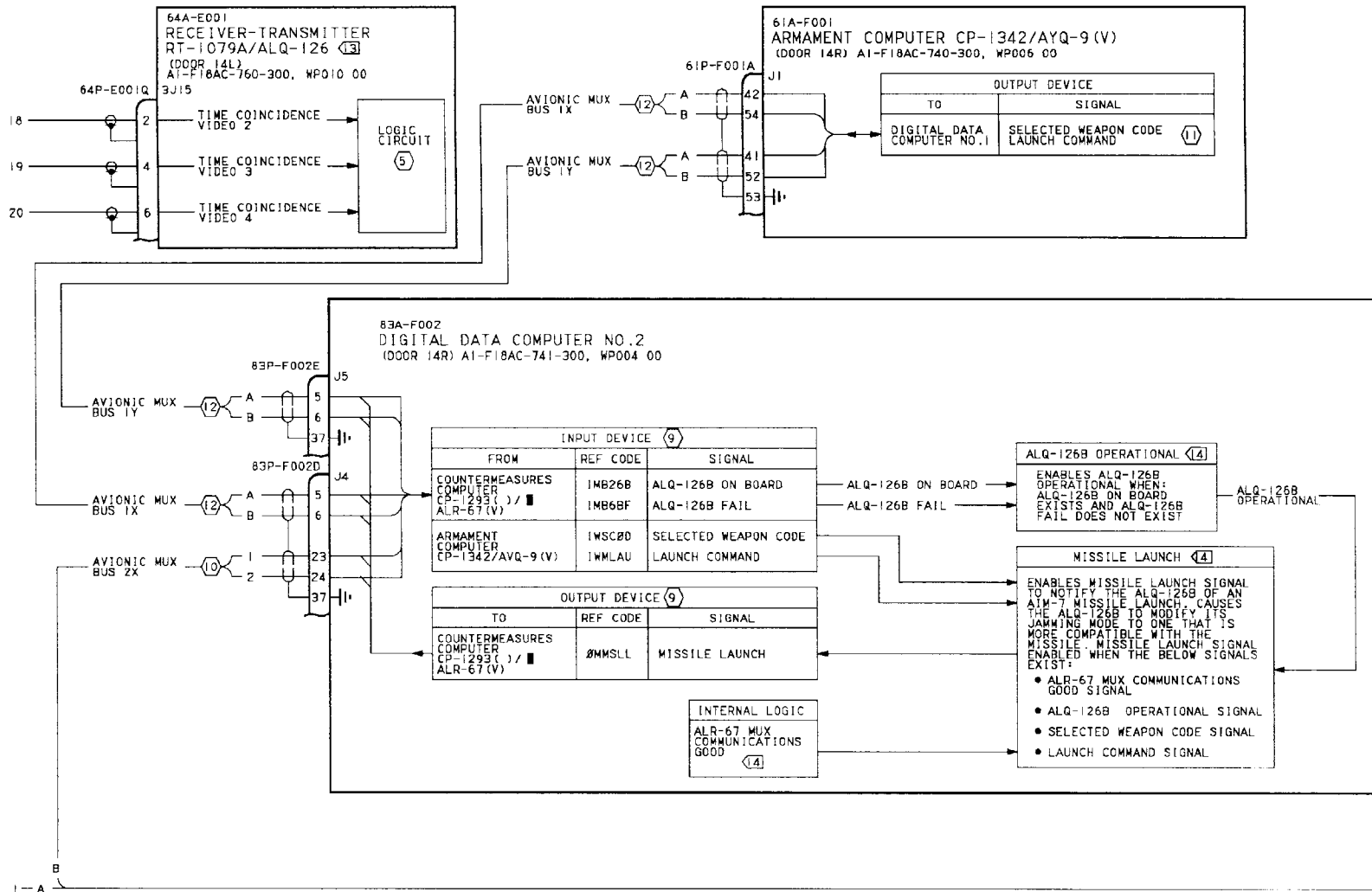


Figure 1.

Figure 1. Integration Schematic (Sheet 2)

Figure 1.

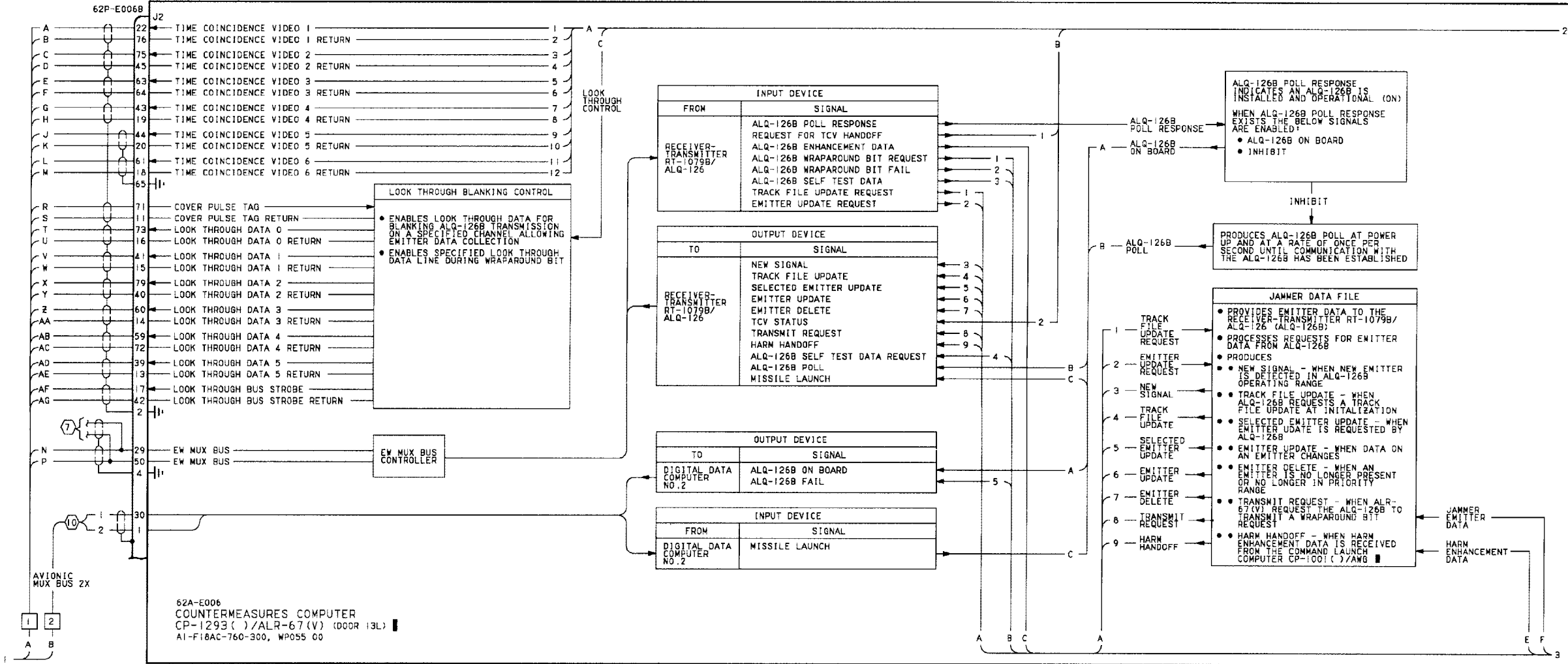


Figure 1.

Figure 1. Integration Schematic (Sheet 3)

Figure 1.

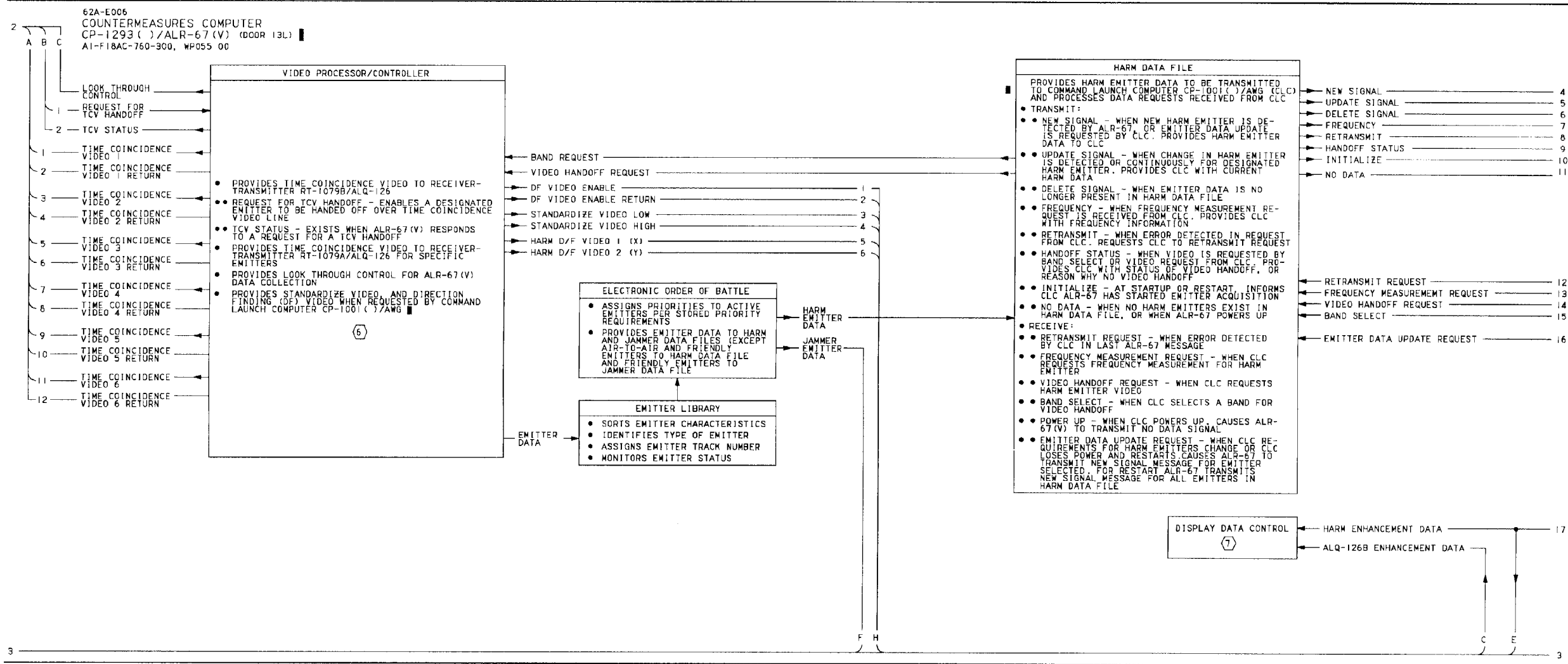


Figure 1.

Figure 1. Integration Schematic (Sheet 4)

Figure 1.

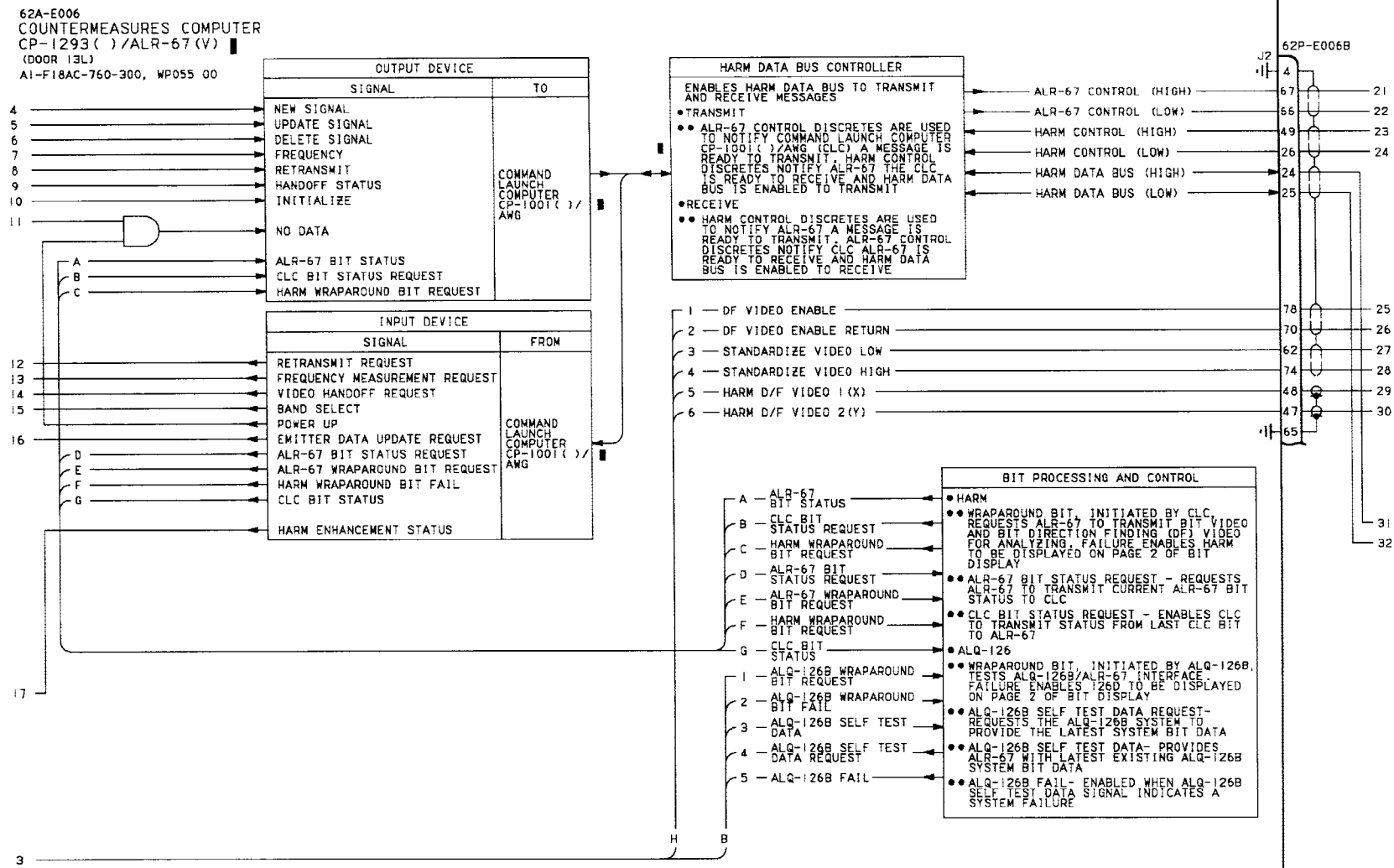


Figure 1.

Figure 1. Integration Schematic (Sheet 5)

Figure 1.

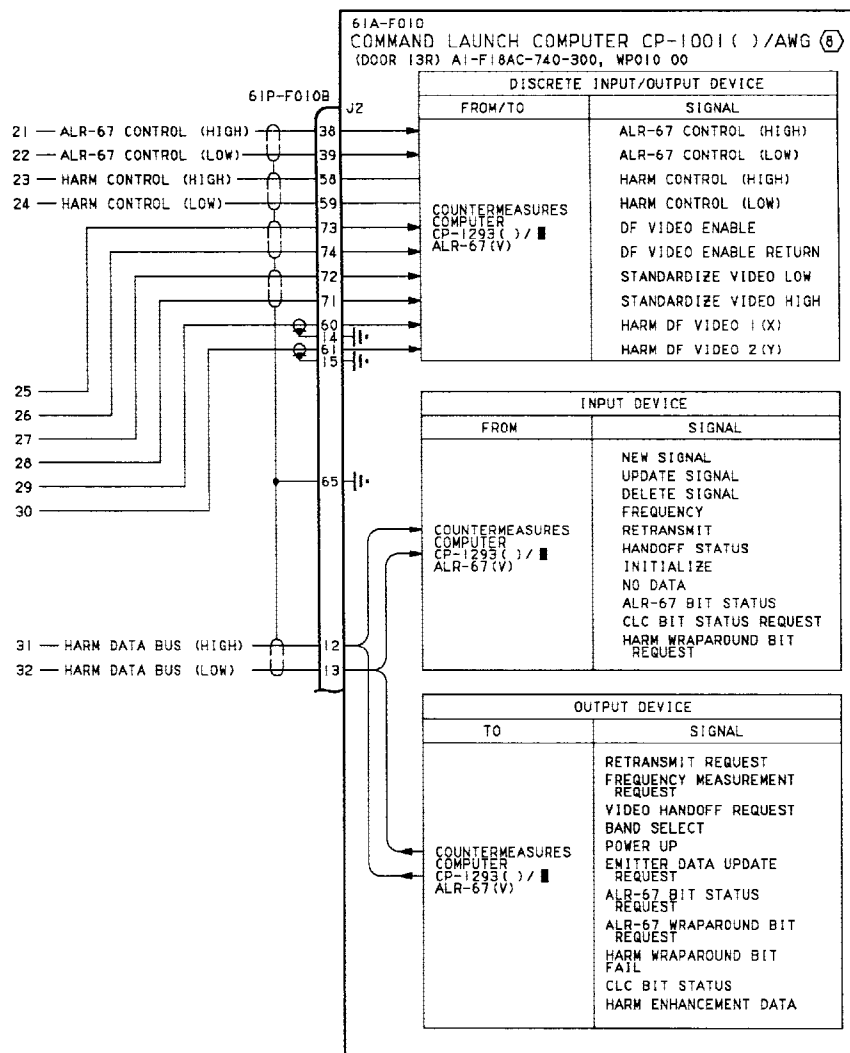
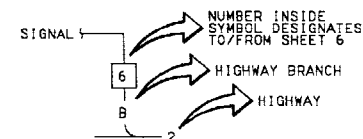


Figure 1.

LEGEND

1. NONSTANDARD SYMBOLS:



2. CONTINUITY TEST:

- ALL AIRCRAFT WIRE NUMBERS, SPLICE POINTS AND GROUND POINTS ARE SHOWN IN A1-F18AC()-WDM-000.
- WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
- DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RXI SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RXI SCALE.
- WHEN TESTING CONTINUITY, TEST FOR:
 - SHORTS TO GROUND.
 - SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - SHORTS BETWEEN SHIELD AND CONNECTORS.
 - SHIELD CONTINUITY.

3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTERS.

4. NONSTANDARD ABBREVIATIONS:

BIT - BUILT-IN TEST
HARM - HIGH SPEED ANTI-RADIATION MISSILE
ALR-67 - COUNTERMEASURES WARNING AND CONTROL SYSTEM.

- 5 RECEIVER - TRANSMITTER RT-1079B/ALQ-126 SCHEMATIC, WP008 00.
- 6 VIDEO PROCESSING AND CONTROL SCHEMATIC, WP014 00.
- 7 CONTROLS, DISPLAYS AND AUDIO SCHEMATIC, WP015 00.
- 8 AGM-68 HARM AVIONIC INTERFACE SCHEMATIC, A1-F18AC-740-500, WP059 00.
- 9 FOR LOGIC DIAGRAMS RELATING TO REF CODE, REFER TO A1-F18AC()-OLD-000. FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO A1-F18AC-FIM-100.
- 10 AVIONIC MUX CHANNEL 2 SCHEMATIC, A1-F18AC-741-500, WP005 00.
- 11 AIM-7 SPARROW AVIONIC INTERFACE SCHEMATIC, A1-F18AC-740-500, WP041 00.
- 12 AVIONIC MUX CHANNEL 1 SCHEMATIC, A1-F18AC-741-500, WP004 00.
- 13 RECEIVER-TRANSMITTER RT-1079A/ALQ-126 AND RECEIVER-TRANSMITTER RT-1079B/ALQ-126 ARE ALTERNATE CONFIGURATIONS OF COUNTERMEASURES SET.
- 14 WITH DIGITAL DATA COMPUTER CONFIG/IDENT NO.84A AND UP (A1-F18AC-SCM-000).

Figure 1. Integration Schematic (Sheet 6)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - VIDEO PROCESSING AND CONTROL

COUNTERMEASURES WARNING AND CONTROL SYSTEM

EFFECTIVITY:161702 AND UP

This WP supersedes WP014 00, dated 1 September 1992.

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 158	Oct 91	Correction of AN/ALR-67 and AN/ ALQ-126B Wiring (ECP RAMEC NO- RIS-22-90)	1 Sep 92	-

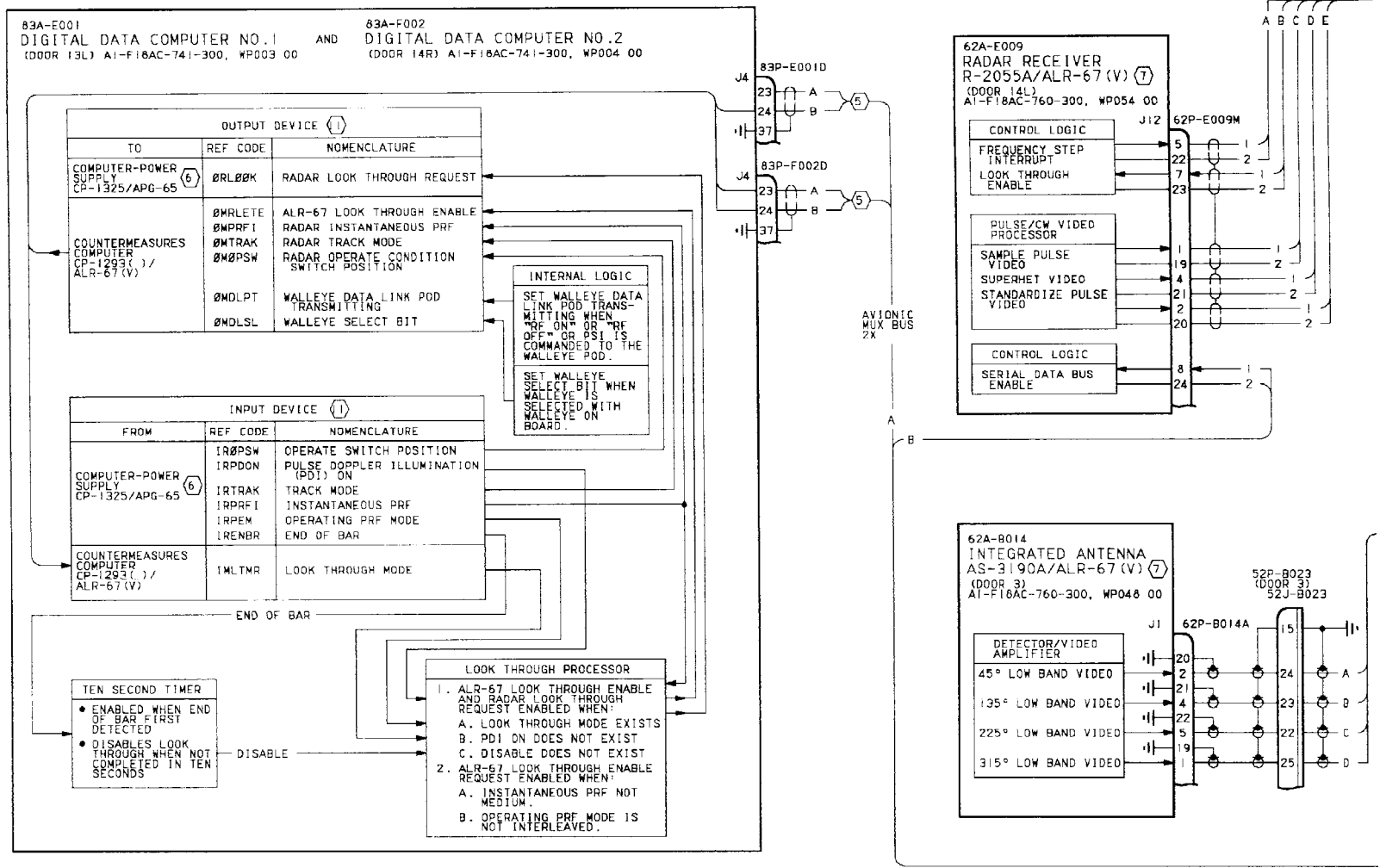


Figure 1.

Figure Video Processing and Control Schematic (Sheet 1)

Figure 1.

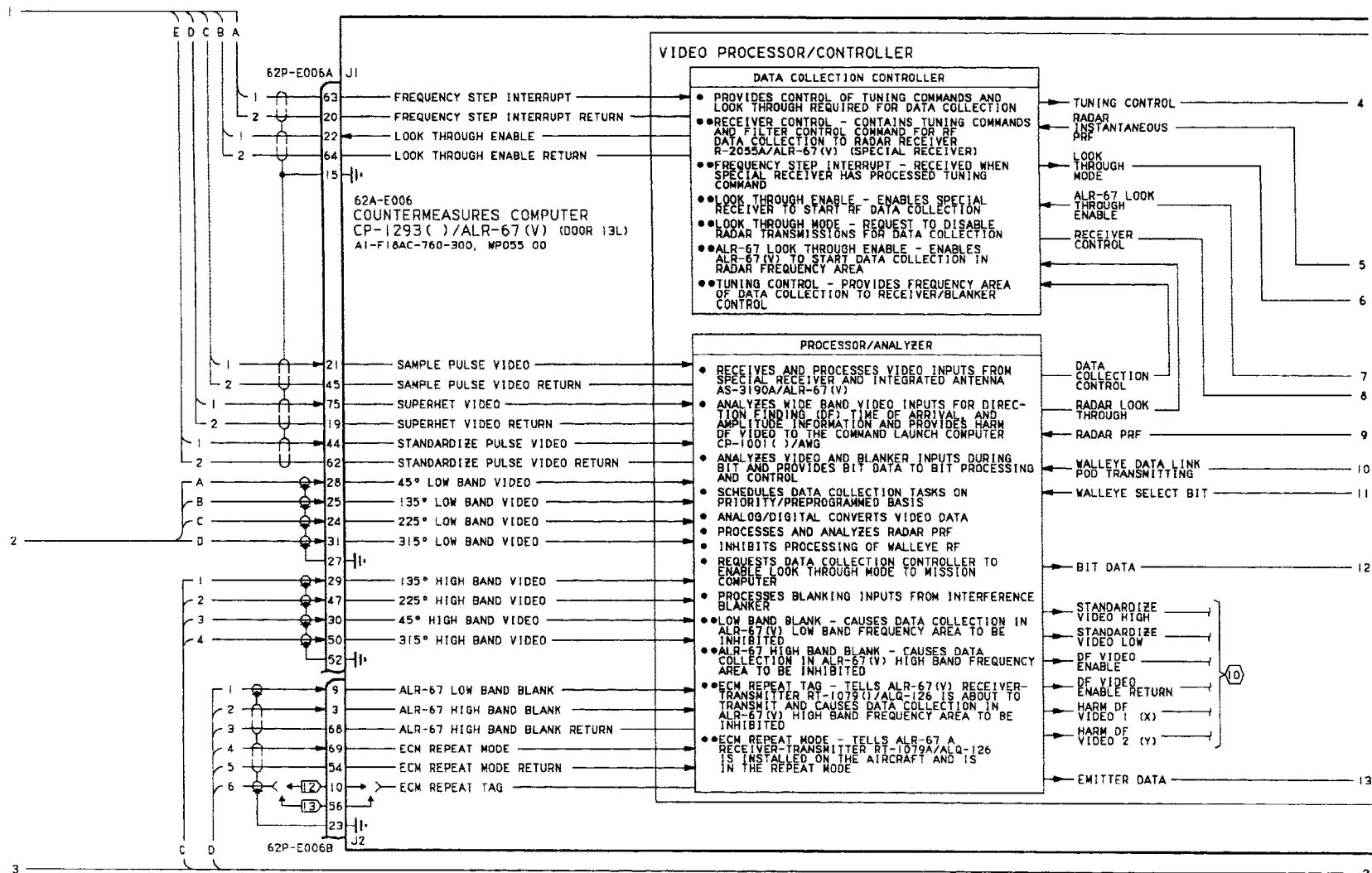


Figure 1.

Figure 1. Video Processing and Control Schematic (Sheet 2)

Figure 1.

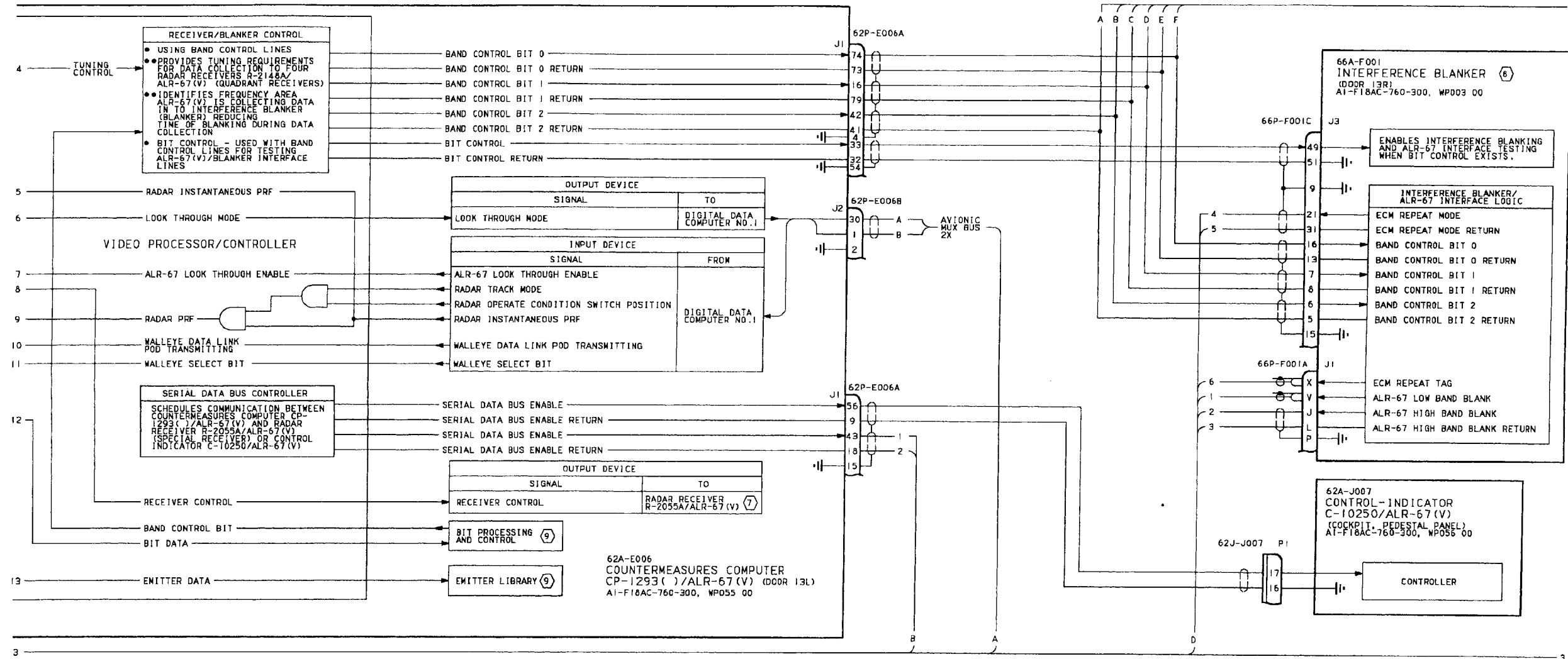
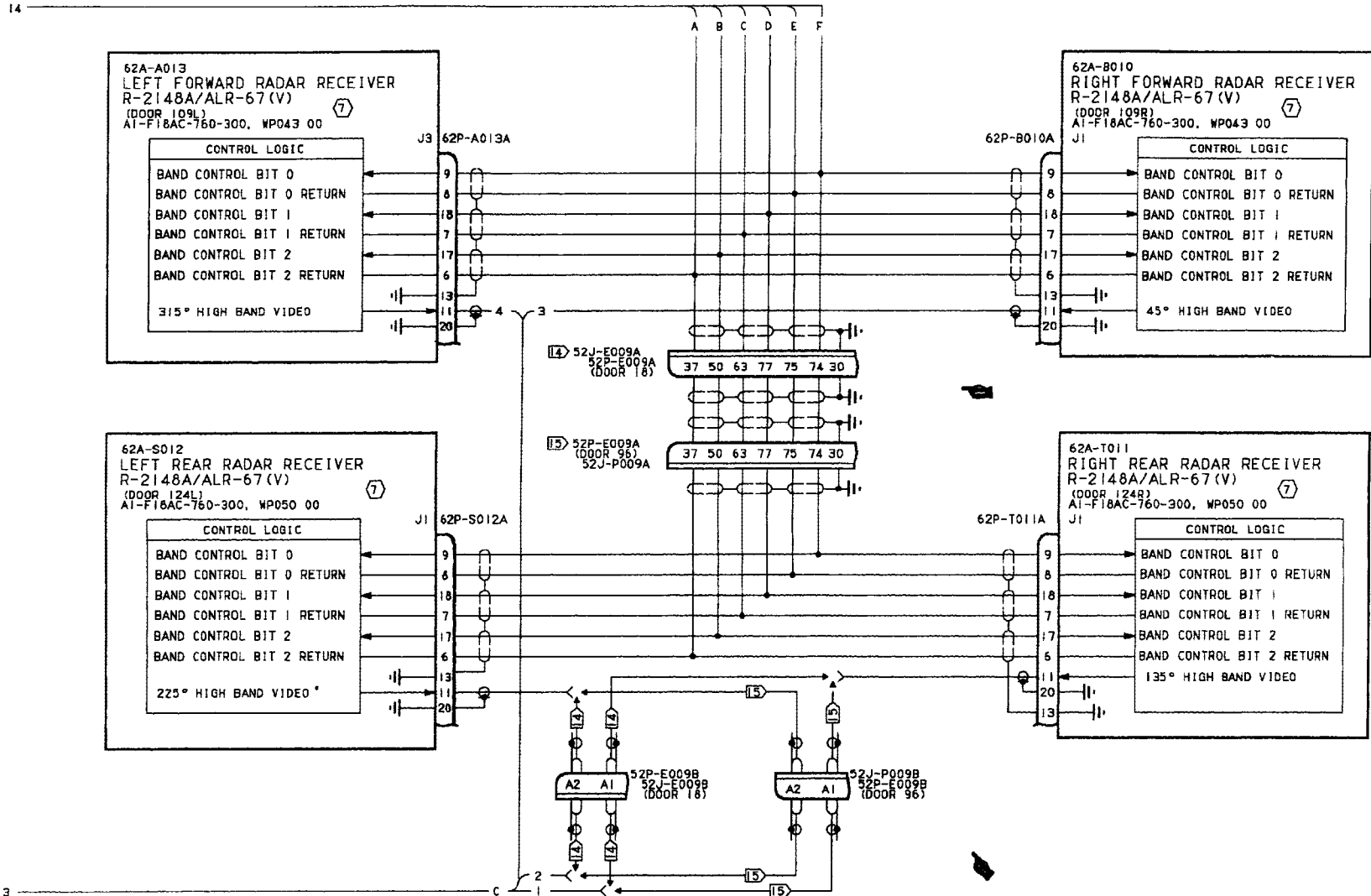


Figure 1.

Figure 1. Video Processing and Control Schematic (Sheet 3)

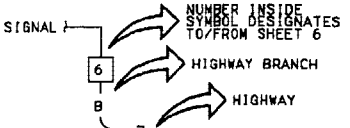
Figure 1.



LEGEND

1. NONSTANDARD SYMBOLS:

- ⊕ IDENTIFIES RELAY USED TO SWITCH LOW LEVEL CURRENT.
SEE NOTE 2.



2. CONTINUITY TESTS:

- A. ALL AIRCRAFT WIRE NUMBERS, SPICE POINTS AND GROUND POINTS ARE SHOWN IN AI-F18A(1)-WDM-000.
- B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
- C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) WITH MULTIMETER ON RXI SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RXI SCALE.
- D. WHEN TESTING CONTINUITY, TEST FOR:
(1) SHORTS TO GROUND.
(2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
(3) SHORTS BETWEEN SHIELD AND CONNECTORS.
(4) SHIELD CONTINUITY.

3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTER.

4. NONSTANDARD ABBREVIATIONS:

- BIT - BUILT-IN TEST
HARM - HIGH SPEED ANTI-RADIATION MISSILE
ALR-67(V) - COUNTERMEASURES WARNING AND CONTROL SYSTEM
- (5) AVIONIC MUX CHANNEL 2 SCHEMATIC AI-F18AC-741-500, WP005 00.
(6) TWS TARGETS AND LAUNCH RANGE AND STEERING TARGETS SCHEMATIC, AI-F18AC-742-500, W0021 00.
(7) RF DETECTION AND CONVERSION SCHEMATIC, WP012 00.
(8) INTERFERENCE BLANKER SYSTEM FUNCTIONAL SCHEMATIC, WP004 00.
(9) CONTROLS, DISPLAYS AND AUDIO SCHEMATIC, WP015 00.
(10) INTEGRATION SCHEMATIC, WP013 00.
(11) FOR LOGIC DIAGRAMS RELATING TO REF CODE, REFER TO AI-F18A(1)-OLD-000. FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO AI-F18AC-FIM-100.

- (12) 161702 THRU 161736 BEFORE F/A-18A AFC 158.
(13) 161737 AND UP; ALSO 161702 THRU 161736 AFTER F/A-18A AFC 158.
(14) F/A-18A
(15) F/A-18B

Figure 1. Video Processing and Control Schematic (Sheet 4)

Figure 1.

ORGANIZATIONAL MAINTENANCE

SYSTEM SCHEMATICS

SCHEMATIC - CONTROLS, DISPLAYS AND AUDIO

COUNTERMEASURES WARNING AND CONTROL SYSTEM

EFFECTIVITY: 161702 AND UP

Reference Material

None

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Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 50	16 Oct 84	Tactical Electronic Warfare Systems, ALR-67 Countermeasures, Modification of (ECP MDA-F/A-18-003R1 C1/C2/C3)	1 Oct 84	-

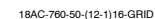


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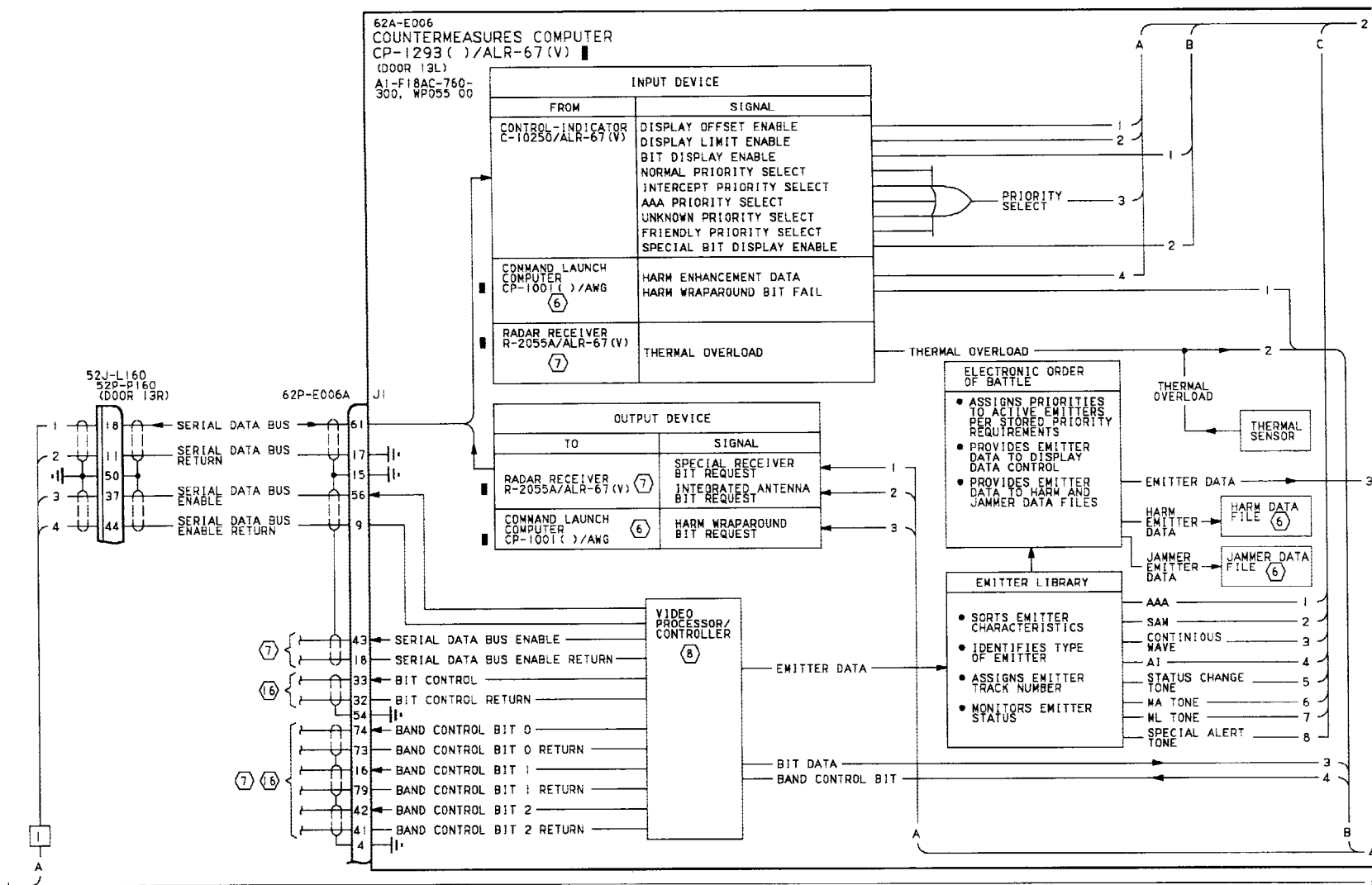


Figure 1.

Figure 1. Controls Displays and Audio Schematic (Sheet 2)

Figure 1.

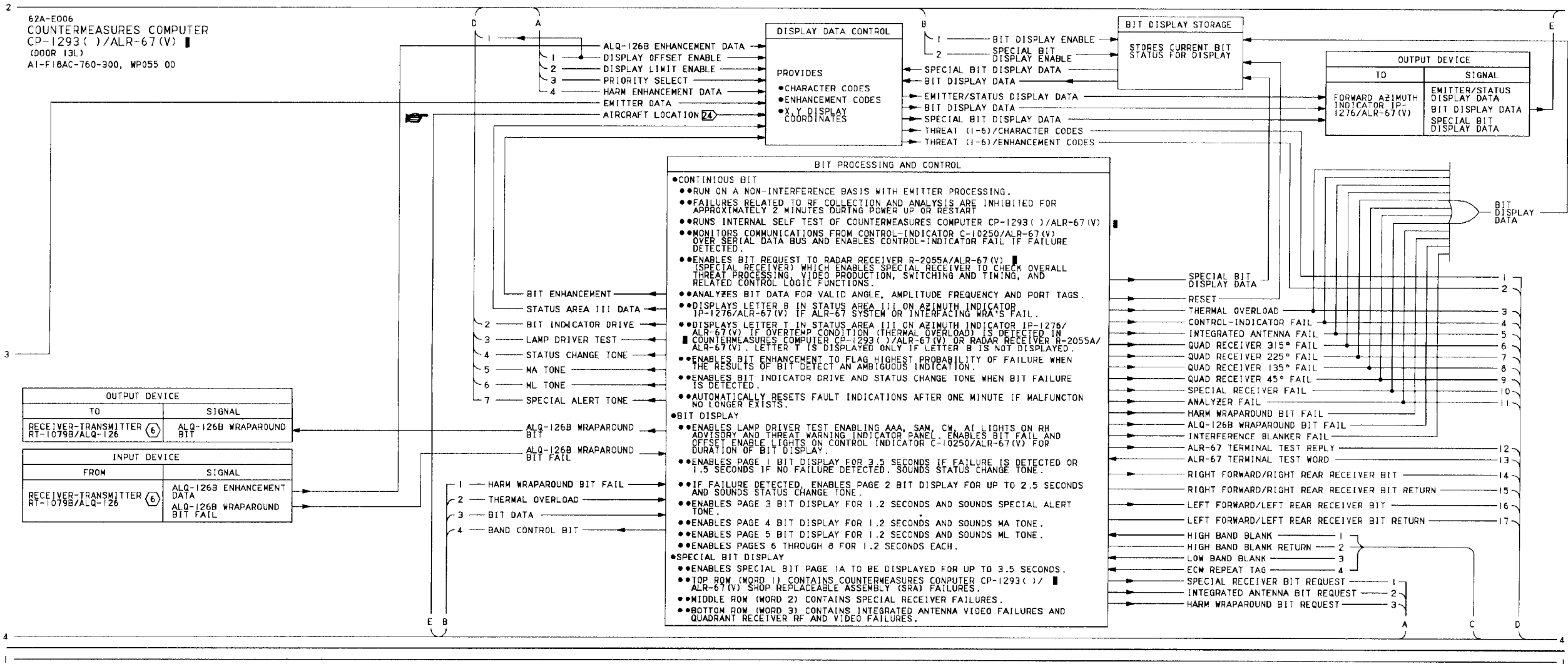


Figure 1.

Figure 1. Controls Displays and Audio Schematic (Sheet 3)

Figure 1.

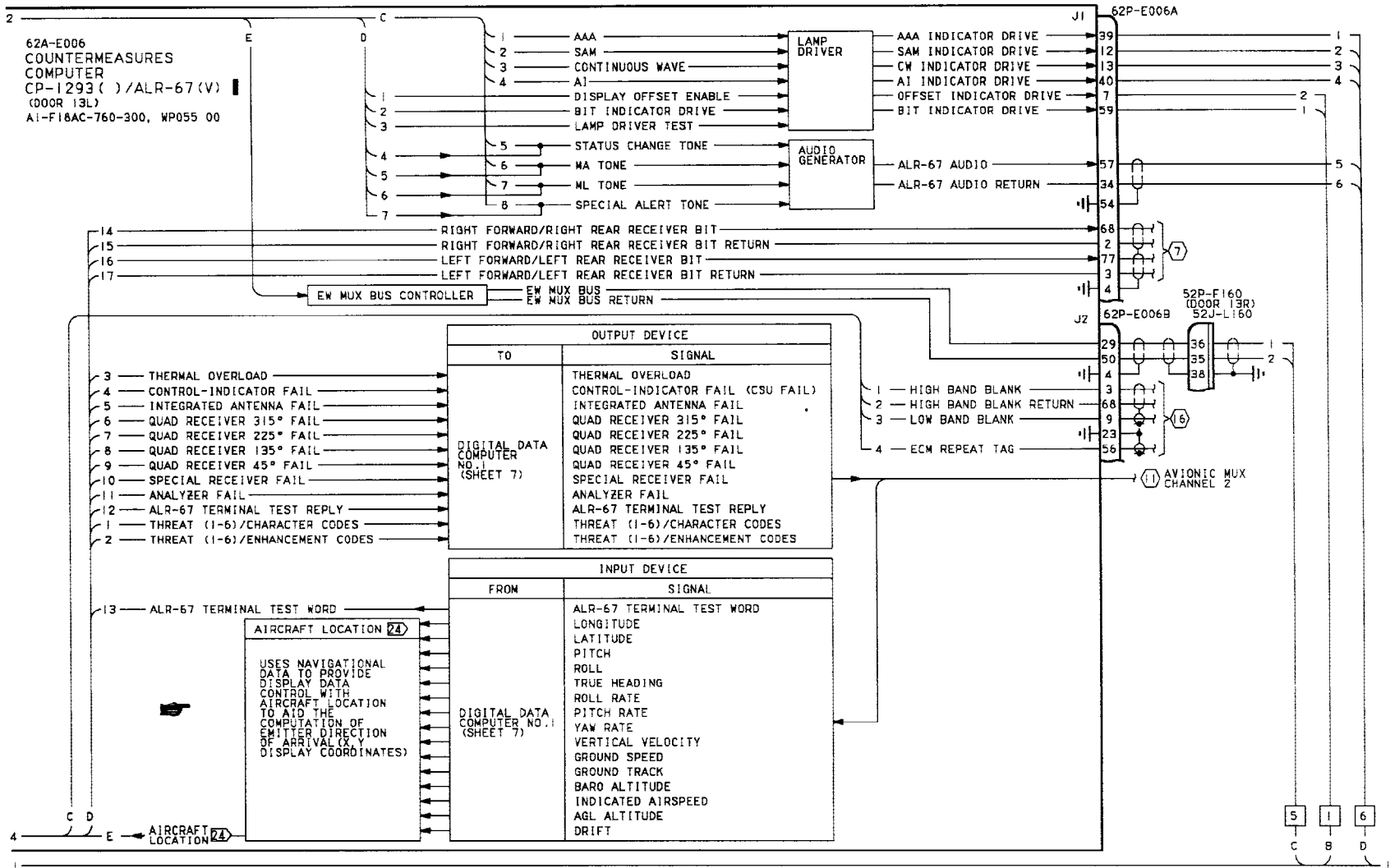


Figure 1.

Figure 1. Controls Displays and Audio Schematic (Sheet 4)

Figure 1.

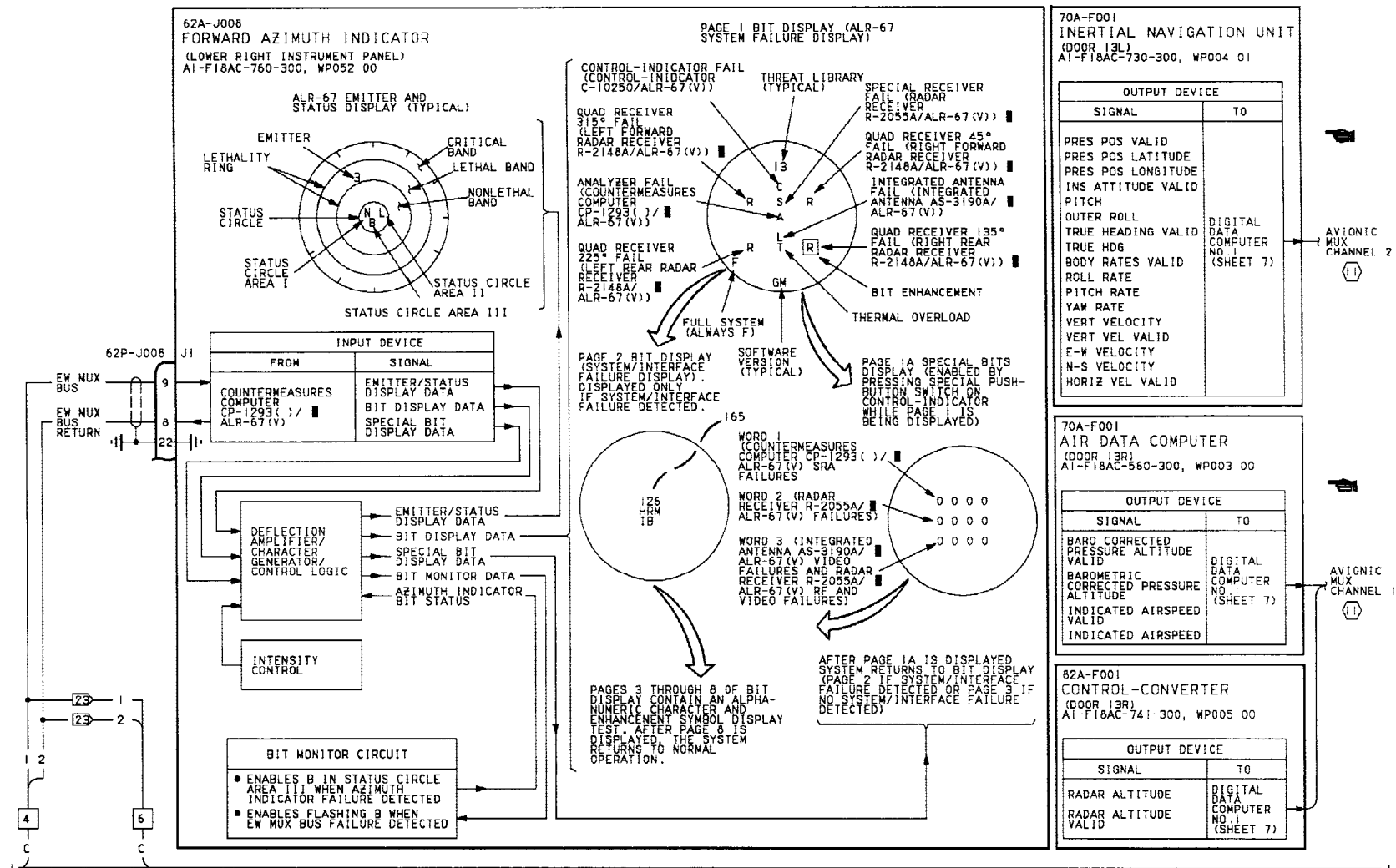


Figure 1.

Figure 1. Controls Displays and Audio Schematic (Sheet 5)

Figure 1.

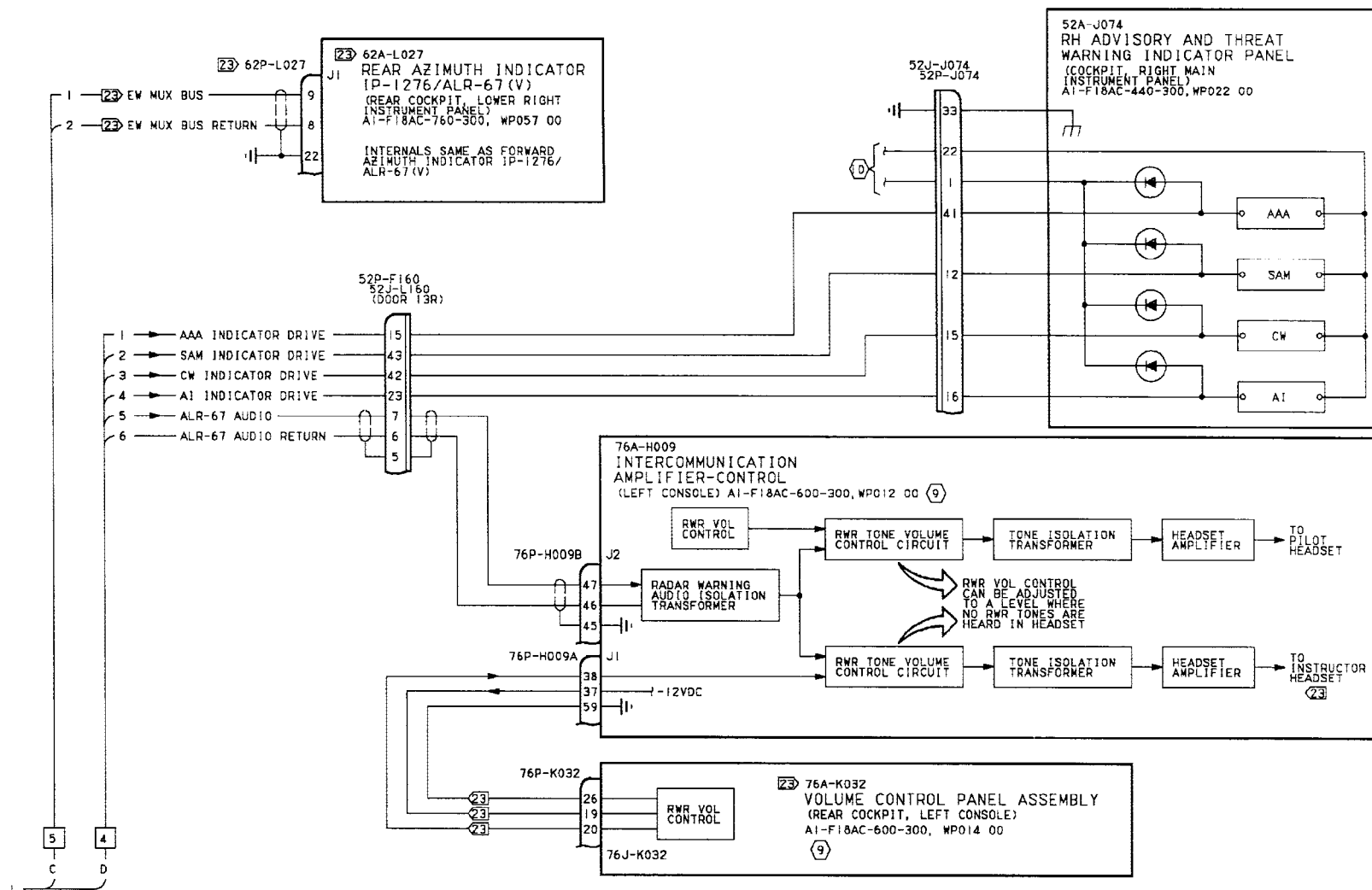


Figure 1.

Figure 1. Controls Displays and Audio Schematic (Sheet 6)

Figure 1.

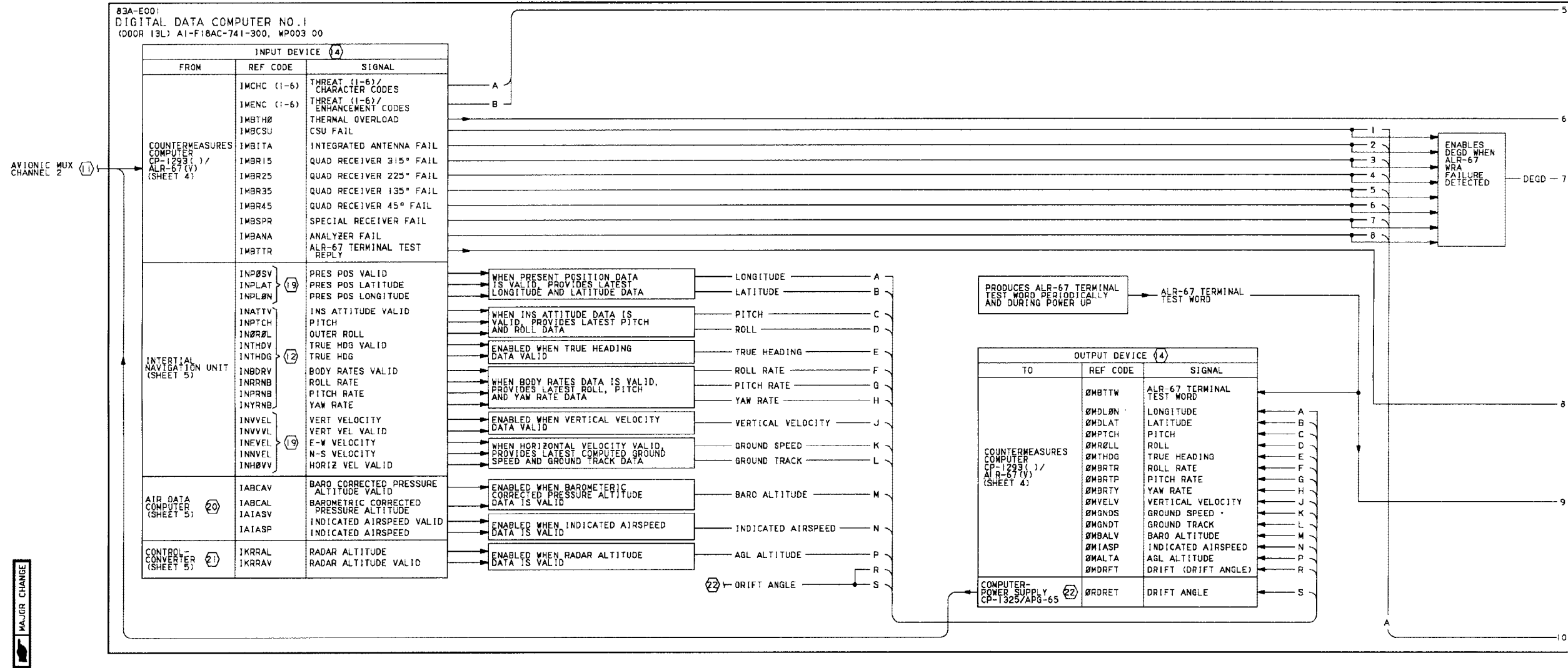


Figure 1.

Figure 1. Controls Displays and Audio Schematic (Sheet 7)

Figure 1.

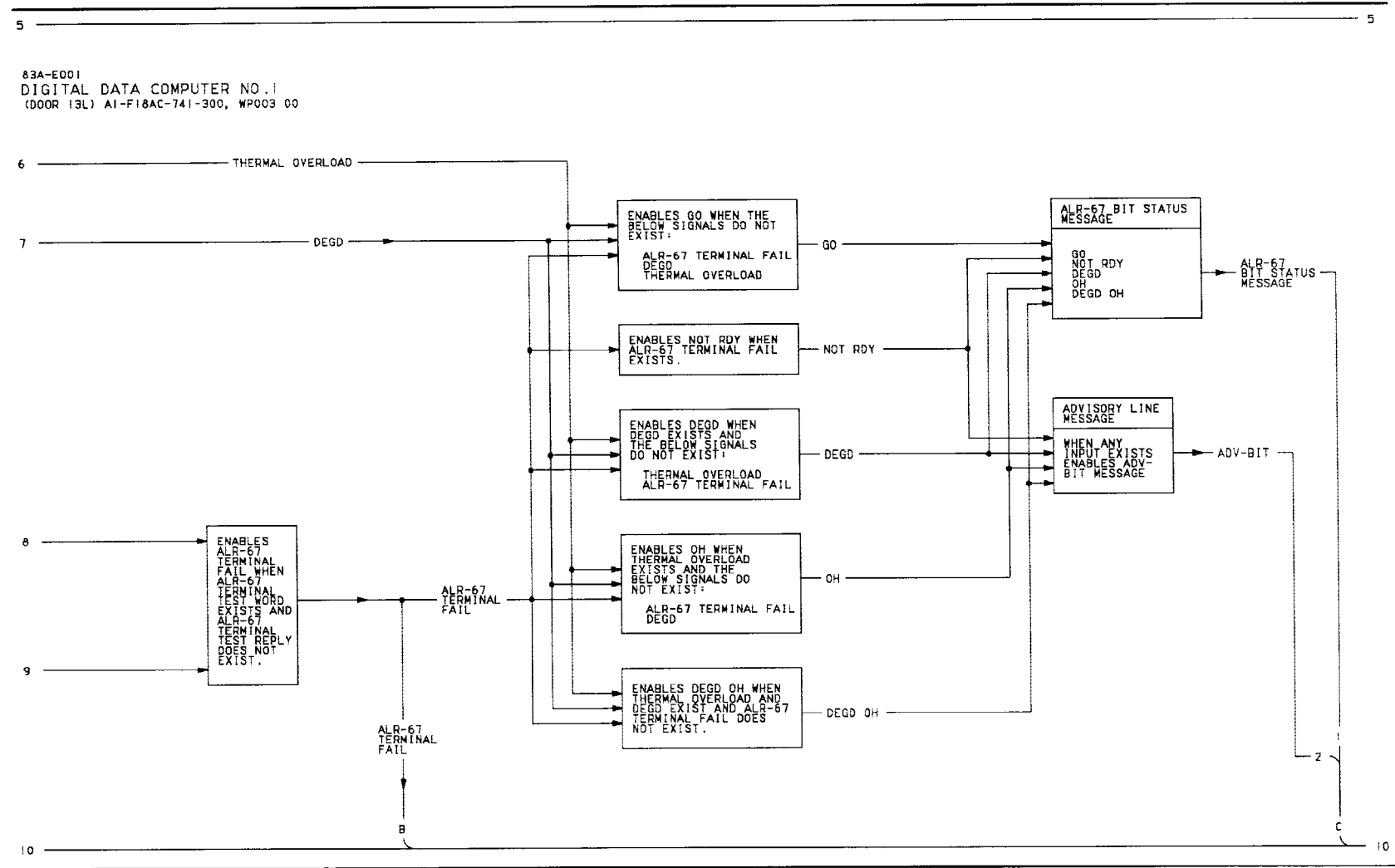


Figure 1.

Figure 1. Controls Displays and Audio Schematic (Sheet 8)

Figure 1.

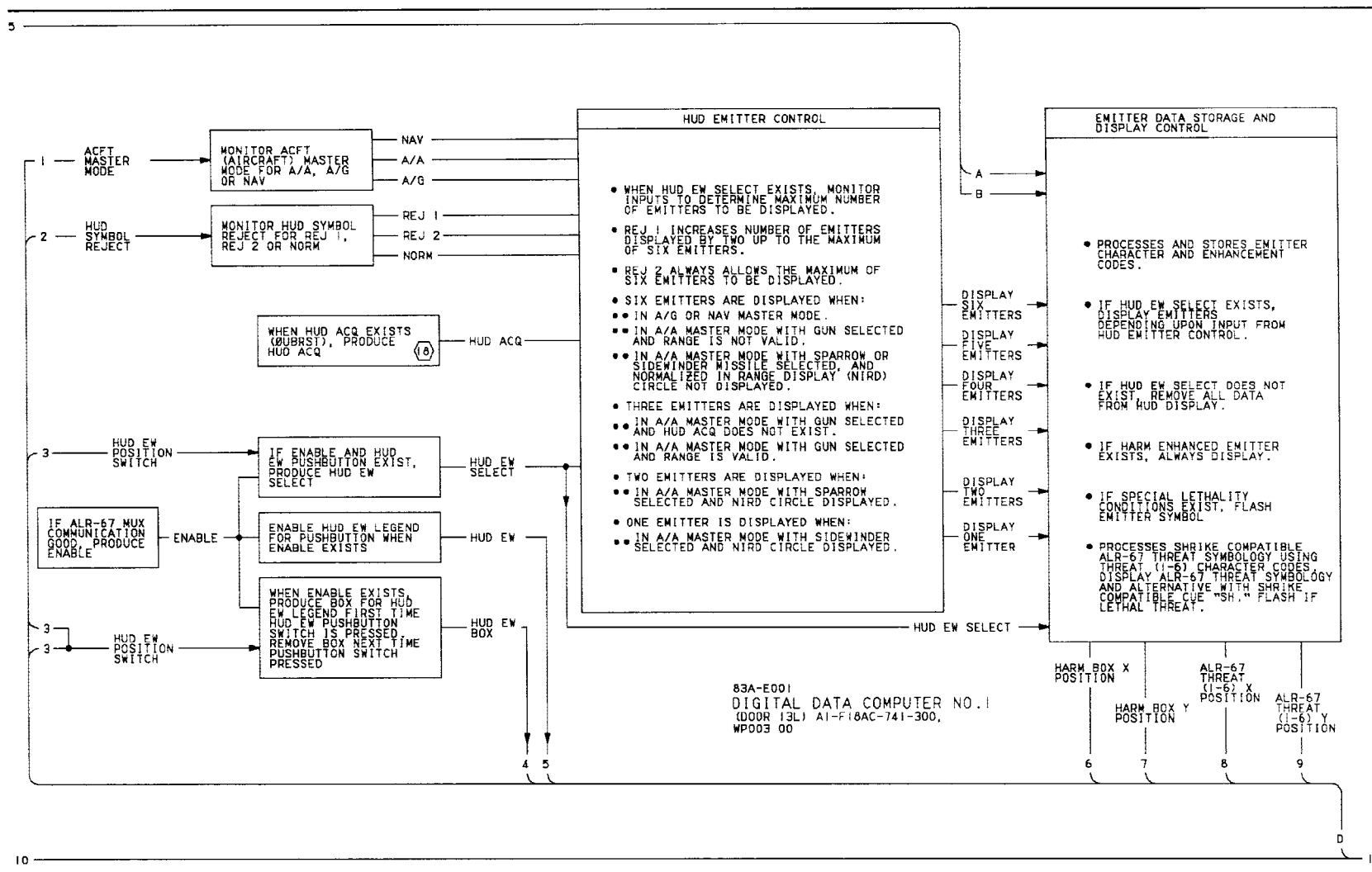


Figure 1.

Figure 1. Controls Displays and Audio Schematic (Sheet 9)

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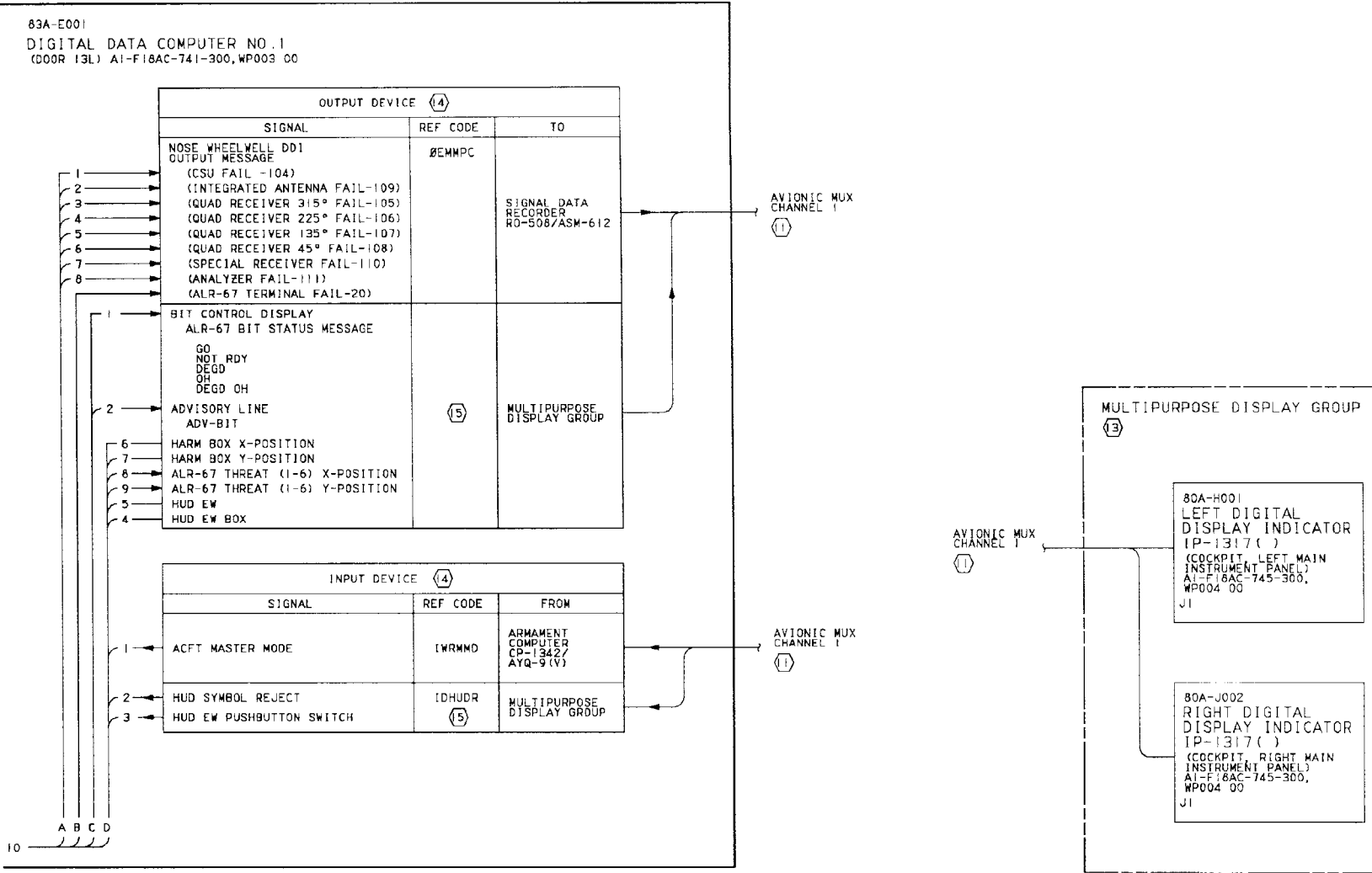


Figure 1.

Figure 1. Controls Displays and Audio Schematic (Sheet 10)

Figure 1.

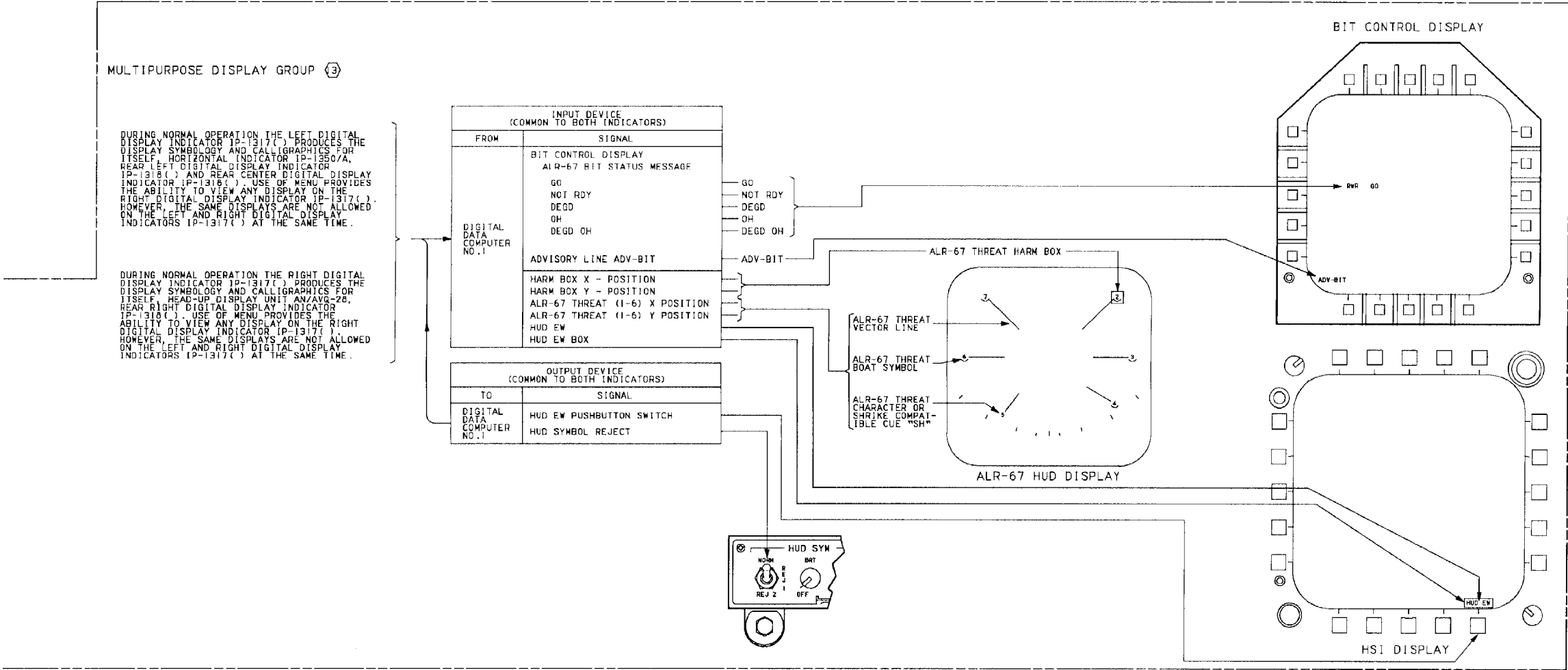


Figure 1.

Figure 1. Controls Displays and Audio Schematic (Sheet 11)

Figure 1.

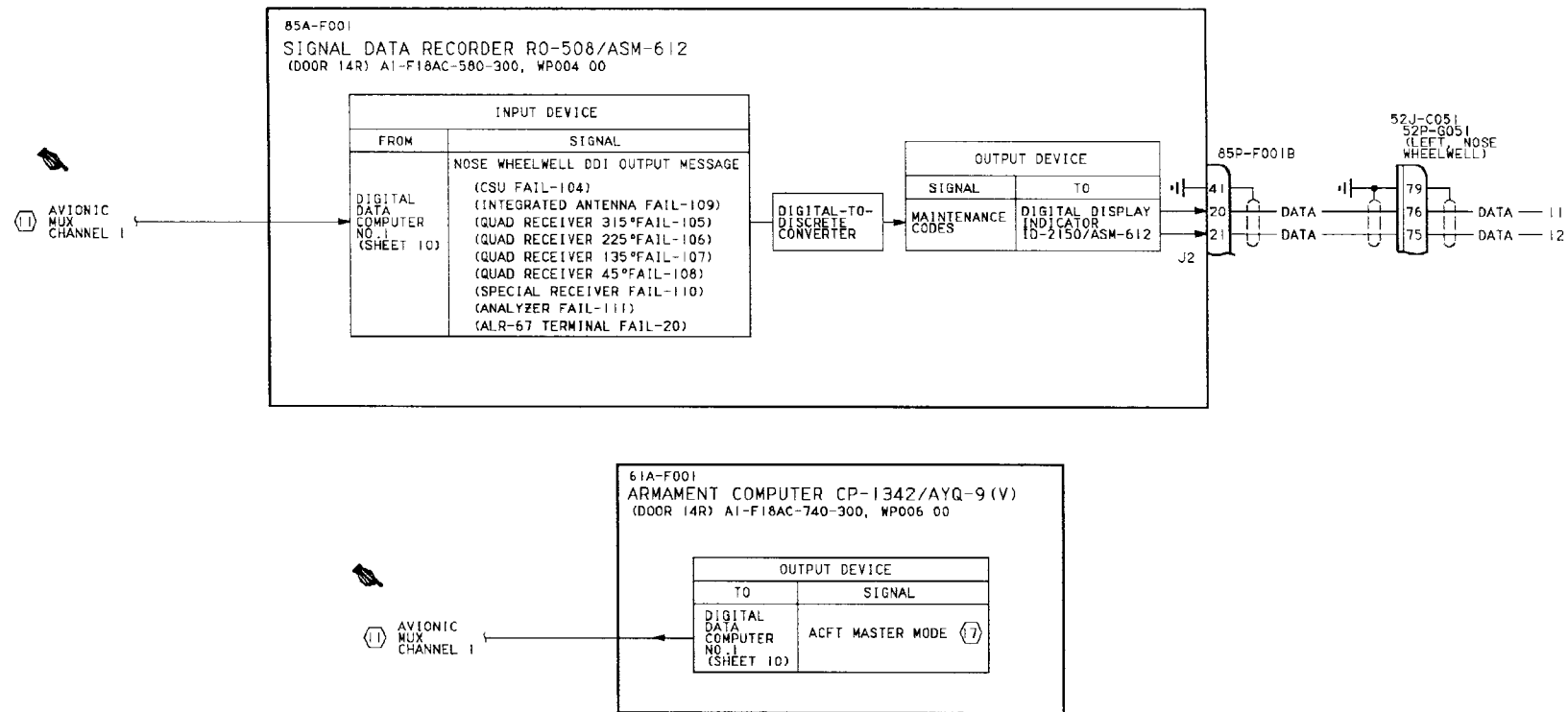


Figure 1.

Figure 1. Controls Displays and Audio Schematic (Sheet 12)

Figure 1.

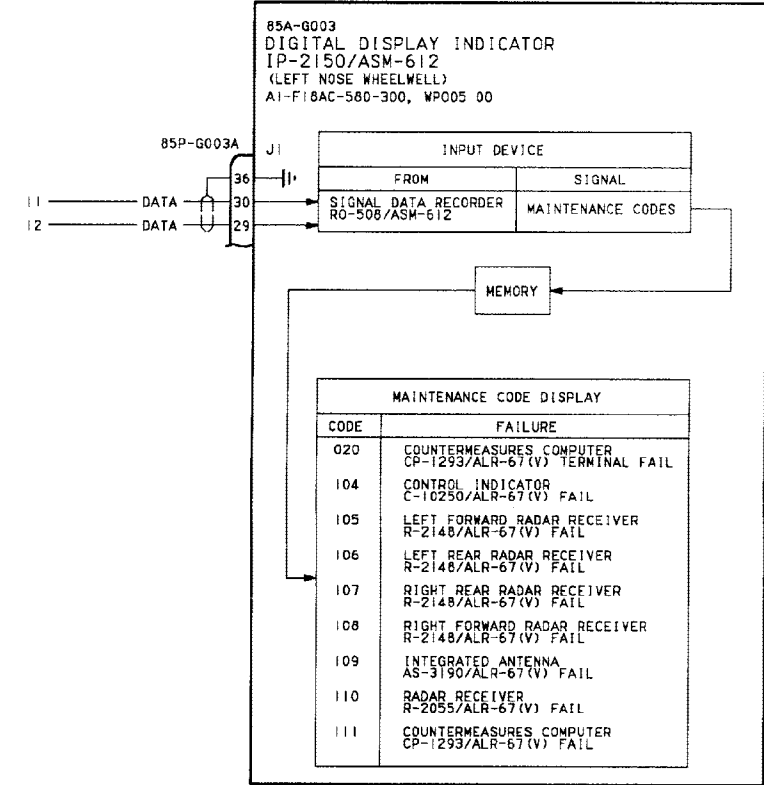
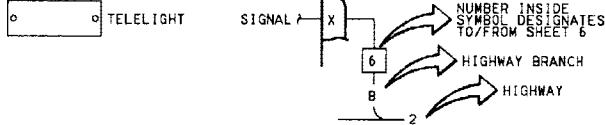


Figure 1.

LEGEND

1. NONSTANDARD SYMBOLS:



⊕ IDENTIFIES RELAY USED TO SWITCH LOW LEVEL CURRENT. SEE NOTE 2.

2. CONTINUITY TESTS:

- A. ALL AIRCRAFT WERE NUMBERS, SPLICE POINTS, AND GROUND POINTS ARE SHOWN IN AI-F18AC-1-WDM-000.
- B. WHEN A LOW LEVEL CURRENT SWITCHING RELAY (IDENTIFIED BY ⊕) IS REMOVED FOR TROUBLESHOOTING, IDENTIFY RELAY AND SOCKET FOR CORRECT REINSTALLATION. DO NOT REPLACE LOW LEVEL CURRENT SWITCHING RELAY WITH ANY OTHER USED RELAY. IF RELAY IS DEFECTIVE, REPLACE WITH NEW RELAY.
- C. DO NOT TEST LOW LEVEL DEVICES (SWITCHES/RELAY CONTACTS) FOR CONTINUITY WITH MULTIMETER ON RX1 SCALE. PIN TO PIN TESTS THAT DO NOT GO THROUGH SWITCHES/RELAY CONTACTS MAY USE THE RX1 SCALE.
- D. WHEN TESTING CONTINUITY, TEST FOR:
- (1) SHORTS TO GROUND.
 - (2) SHORTS BETWEEN SURROUNDING PINS ON CONNECTORS.
 - (3) SHORTS BETWEEN SHIELD AND CONDUCTORS.
 - (4) SHIELD CONTINUITY.

3. LINE UNDER LETTER (S) INDICATES LOWER CASE PIN LETTER.

4. NONSTANDARD ABBREVIATIONS:

- BIT - BUILT-IN TEST
- HARM - HIGH SPEED ANTI-RADIATION MISSILE
- EW - ELECTRONIC WARFARE
- MA - MISSILE ALERT
- ML - MISSILE LAUNCH

⑤ POWER INTERFACE SCHEMATIC, WP011 00.

⑥ INTEGRATION SCHEMATIC, WP013 00.

⑦ RF DETECTION AND CONVERSION SCHEMATIC, WP012 00.

⑧ VIDEO PROCESSING AND CONTROL SCHEMATIC, WP014 00.

⑨ INTERCOMMUNICATION AND AUDIO SYSTEM FUNCTIONAL SCHEMATIC AI-F18AC-600-500, WP013 00.

⑩ COCKPIT ADVISORY LIGHTS SCHEMATIC AI-F18AC-440-500, WP006 00.

⑪ SEE APPLICABLE AVIONIC MUX CHANNEL SCHEMATIC AI-F18AC-741-500.

⑫ NAVIGATION ATTITUDE AND HEADING FUNCTIONAL SCHEMATIC, AI-F18AC-730-500, WP017 00.

⑬ THE MULTIPURPOSE DISPLAY GROUP IS MADE UP OF THE LEFT DIGITAL DISPLAY INDICATOR IP-1317(), RIGHT DIGITAL DISPLAY INDICATOR IP-1317(), HEAD-UP DISPLAY UNIT AN/AVQ-26, HORIZONTAL INDICATOR IP-1350/A, AND ON F/A-18B THE REAR LEFT DIGITAL DISPLAY INDICATOR IP-1318(), REAR RIGHT DIGITAL DISPLAY INDICATOR IP-1318(), AND REAR CENTER DIGITAL DISPLAY INDICATOR IP-1318(). FOR MULTIPURPOSE DISPLAY GROUP INTERFACE REFER TO AI-F18AC-745-500.

⑭ FOR LOGIC DIAGRAMS RELATING TO REF CODE, REFER TO AI-F18AC-OLD-000. FOR MEMORY INSPECT ACCESS LOCATION RELATING TO REF CODE, REFER TO AI-F18AC-FIM-100.

⑮ DISPLAY REF CODES ARE NOT SHOWN. IF DISPLAY MALFUNCTION EXISTS, TRANSFER DISPLAY TO ANOTHER INDICATOR. IF MALFUNCTION EXISTS ON MORE THAN ONE INDICATOR, TROUBLESHOOT USING AI-F18AC-OLD-000 INPUT REF CODES. IF MALFUNCTION EXISTS ONLY ON ONE INDICATOR, TROUBLESHOOT BY DOING DISPLAY TEST, AI-F18AC-745-200, WP004 00 (F/A-18A) OR WP005 00 (F/A-18B).

⑯ INTERFERENCE BLANKER FUNCTIONAL SCHEMATIC, WP004 00.

⑰ AIRCRAFT MASTER MODE SELECT SCHEMATIC, AI-F18AC-740-500, WP013 00.

⑱ AIR COMBAT MANEUVERING AND GUN MODE DISPLAY SCHEMATIC, AI-F18AC-742-500, WP022 00.

⑲ NAVIGATION VELOCITY AND POSITION KEEPING FUNCTIONAL SCHEMATIC, AI-F18AC-730-500, WP018 00.

⑳ AIR DATA COMPUTER SYSTEM FUNCTIONAL SCHEMATIC, AI-F18AC-560-500, WP004 00.

㉑ ELECTRONIC ALTITUDE SYSTEM FUNCTIONAL SCHEMATIC, AI-F18AC-600-500, WP023 00.

㉒ AIR TO GROUND ANTENNA CONTROL FUNCTIONAL SCHEMATIC, AI-F18AC-742-500, WP016 00.

㉓ F/A-18B

㉔ WITH DIGITAL DATA COMPUTER NO.1 CONFIG/IDENT NO.92A AND UP (AI-F18AC-SCM-000).

Figure 1. Controls Displays and Audio Schematic (Sheet 13)

Figure 1.